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Notes
from the
Manuscipt Lectures
on the
Practice of Physic,
of
Benjamin Rush M. D.

Profeſsor of the Institutes of Medicine
and Clinical Practice in the University
of Pennsylvania

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Contents

	Lect.	Chapt.
Malignant Fever	10.	43.
Plague	6. d°	45.
~~Hydrocephalus or Dropsy~~		
Hydrophobia	11.	48.
Gangrenous state of Fever	12.	54.
Typhus Fever	d°	56.
Typhoid d°	d°	57.
Hectic d°	d°	d°
Intermitting d°	d°	58.
Sweating d°	13	60.
Fainting d°	d°	61.
Burning d°	d°	d°
Intestinal d°	d°	62.
Pneumonic d°	14.	66.
Rheumatic d°	16.	77.
Arthritic d°	d°	79.
Maniacal d°	18.	92
Hypochondriac d°	d°	96
Hysteric d°	19.	96.

11 Ja 38 G. Dr Wm Pepper F. 5-38-40 4.35

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Contents

	Lect.	Page
Melancholia	19.	100.
Tonic & atonic Madneſs	20.	101.
Fatuity or Idiotism	22.	110.
Apoplectic State of Fever	24.	117.
Paralytic d°	25.	122.
Comatose & vertiginous d°	d°	124.
Waking d°	d°	125.
Hydrocephalic d°	d°	d°
Nephritic d°	d°	126
Hydropic d°	26.	128.
Eruptive d°	d°	130.
Hamorrhagic d°	27	132.
Opthalmic d°	28.	142.
Odontalic d°	d°	143
Otalgic d°	d°	145.
Hepatic d°	d°	146.
Scrophulus d°	d°	147.
Inflamations	29.	148.
Convulsions	d°	150
Hypochondria & Hysteria	30.	154
Epilepsy	31.	158.

The
Practice of Physic

Lecture 1st Jany 30th 1798

The Practice of Physic, treats of the Causes, Symptoms, and Cure of Diseases- of the diagnoses and Prognosis- My principles under the diagnoses are of little Consequence, as they don't so much consider the seats, of the diseases as the State of the System—

But the prognosis in this course shall have its full weight.—

I shall adduce a new order I reject Dr. Cullen and all others that I know of- The following Simile will illustrate, how far I differ from Dr Cullen- we will suppose the Doctor to have a House containing 100 Rooms, each having a different Lock, of course he must have an equal number of different Keys to open them— Now I am capable of entering every apartment of my House with the aſsistance of a single Key- Besides it cannot be otherwise but that some of the Doctor's Keys, from being long out of use, must become perfectly nusty— The Subject first to be explaned, is, what is improperly called Fever, I say improperly, because the word Fever signifys Heat— now we know there are Fevers without any Heat— You see, Genttlemen, how much we are shut out from Truth in Medicine—

The time I hope is near at hand, when the names of diseases, will be as little noticed, as the different names of the Heathen Gods.—

1. Proxymate Cause—(vide 4th Vol: Inquin:) Dr. Rush here took the Vollume as a Text Book, upon which he made a few Comments— Direct and indirect Debility are of such similarity as to be known only by there Causes—

Mr. Hunter calls those Medicines, Stimuli, which induce heathy Action, and those Irritants, which produce Disease— A Cold Night in the Autumn has excited Fever in some hundred Persons— this was owing to the Miasmata which was floating in the System, being put into Action, by the Cold increasing the Excitability. by abstracting the Stimulus of Heat—

Contractility lessens with Age— then the skin of an old Man, being pinched up, is long Contracting— This is a good Rule to know whether a Horse be aged or, vise versa, Young—

There is no Disease that affects the System, equally in every part - they are all partial, thus, in affections of the Bowels, the excitement is brought from all the other parts of the System, and concentrated there - When the Bloodveſsels are more particularly affected, the Excitement is abstracted from the Muscles and thrown there - hence the Muscular debility, and hence the violent Morbid Action of the Veſsels -

Stimulus is the Remote Cause of disease and there is no other - this is founded upon there being but one Proxymate Cause - (vide 4th Vol:) - Nosology - is merely a State of Symptoms - should therefore with more propriety be called, Symptomalogia -

Physicians have lost there reputation by declaring the Unity of disease -

I shall prove to you hereafter, that a Convulsion of the Muscular Fibres of the Bloodveſsels as certainly takes place in Fever, as a common Convulsion of the Muscles and Nerves. -

You will often find violent Action in the Veſsels of the Head, Neck, Abdomen and Heart, when there is scarcely any in the Wrists - You will find violent Action in the Temporal Artery, when the Hearts pulsations are very weak. Attend to this, Gentlemen, for one of the Indications of Bloodletting, is to render this Excitement general, by diffusing it through the System equally— In many Cases you will find, that in opening a Vein the Blood will first run very well, and then very soon Stop; give a Glaſs of Wine, and the Blood will flow freely, this makes me suppose the Veins takes on a kind of Paralysis——

Lecture 2d. Jany. 31st. 1798.

The White Tongue in Yellow Fever, is a bad Symptom, it shews an Obstruction of the paſsage of the Bile- Yellow Tongue is a favourable Symptom— A Black Tongue is very unfavourable in a Malignant Fever- it shews a tendency to Mortification— I believe Mortification in a degree does take place, on the Tongue, for when the Patient begins to recover, large sloughs comes away—

There can be Morbid Action without Inflammation- there are diſsections to prove that Persons have died of Cholic, Hydrocephalus internus— Hydrophobia &c. with all the Phenomena of Morbid Action and without the smallest marks of Inflammation- Forget not Gent: that it is Morbid Action which constitutes Disease- it is not neceſsary that Inflammation should be present, for instance, when a Patient dies suddenly from the impression of a Violent Stimulus, there is Disease, but no Inflammation—

Impression in one part will produce Sensation in another—that is, the part debilitated previously; Of course we have many misplaced Fevers—The Brain for instance will be strongly affected with Fever, and Symptoms of Fever will appear in no other part of the System; the whole being locked up as it where, in the Brain— The Pulse here scarcely ever tells us any thing—Impress this strongly on your minds Gent:— Mr John Hunter, has accurately taken notice of this Circumstance and if he had left nothing else behind him, it would have been suffecient to have perpetuated his name—

We will now say a few words upon the removal of the Precursors or Premonitory Symptoms of Fever—which are, 1st Costiveness—2d Diarrhaea—3d Dullness of Intellects or unusual Sprightliness—4th Preternatural or defective Appetite—5th Loss of Appetite for Tobacco in those who have been accustomed to it—6th Excess or deficiency of Urine—7th A preternaturally dry or moist skin—8th A preternaturally warm or Cold skin—9th Head Ache—10th Giddiness—11th Wakefullness—12th Distressing Dreams—13th Weariness or a disposition to rest—When these Symptoms occur, they should never be neglected— The remidies are—

I. Gentle Evacuants -

II. Gentle Stimulants -

Those falling under the head of Evacuants, are 1. A Purge - 2d Vomits 3d Bloodletting - 4th A Sweat - 5th Fasting two or three Days - These Remidies should be ~~used~~ administred in small quantities -

Those which comes under the Head of Stimulants, are, 1st Gentle Heat - 2d Pediluvium - 3d General, moderately warm Bath - 4th Wine - 5th A few Drops of Liquid: Laudanum: - 6th A Pint of Sage Tea, or warm Whey~~ey~~ - which cures either by distention or by inducing a Diaphoresis -

Fatigue from any cause may be prevented by the above Remidies - I know several Gentlemen who use the Warm Bath, after a long Chace, and thereby effectually prevent the Fatigue that would otherwise follow - The Noble Men in England will ride 60, 70 or 80 miles a Day to reach London in the Evening, when by using the Warm Bath, or some of the Remidies above mentioned, are rendered perfectly able to Visit the Theatre, and sit up chief of the Night, without experiencing the least Fatigue -
As many of you Gentlemen may expect to be exposed to fatigue, many times during the Course of your Lives, let me recommend you always to make use

of the Pediluvium or some other of the Remedies mentioned– After such exposures, By the use of these means, I have not only often strangled a Fever in myself; but in a thousand other instances– These stimuli here act in a ratio with the Excitability– A Portion of stimulus disproportioned to the Excitability would induce violent morbid Action— Take notice, you are only to use the Remedies under the Second head in the forming State of the Fever–after which they are highly improper ——

Lecture 3d.. Feby 1st. 1798 – and 4th Lec:

Indications for Bloodletting in Fever–

(vide 4th Vol:) The abstraction of a quantity of Blood is not in ratio to the reduction of Excitement, because the abstraction of some Blood, will open the Emunctories and produce an additional Evacuation by the Skin &c.

Many, many Instances of lengthy Nervous or putrid Fevers are brought on by the neglect of the Lancet–

Fevers are not cured by Physicians unless called early; for after a certain time, unless Blood letting have been used, the Fever will run its Course—

There is frequently a Vomiting attending Bilious Fevers– Antiemetics without number have been

been ~~and~~ administred; But there is no Antiemetic here so good as the Lancet — A Purge, or an Enema. (vide 4th Vol:) ——

We have fewer Dropsyes; fewer Consumptions; fewer Jaundices; fewer Hydrocephali interni &c.a at present, than formerly, owing to Bloodletting being now more generally used in the diseases which precede them — I have been led to suppose Bleeding would prevent the Stone —

To prescribe for the Habit of a Patient, is to prescribe for his Constitution — 'Tis not the Constitution, but the Morbid Action that must alone be attended to in Disease —

All Children who die in the course of two or three Days illneſs, die of indirect debility, and might be saved by depletion —

In old Age Doctor Chyne used very properly to observe, that Bloodletting would render a mans paſsage down the Hill of Life, much more quiet, and safe — ——

While your Female Patients, Gentlemen, during Pregnancy, are labouring under an Inflammatory Fever, you will never have an Abortion, if you will remember to Bleed more liberally, than if they were not Pregnant — so also in Small Pox &c.a

In an Inflammatory Disease, provided the Pulse continued tense, call for the Lancet, I would go on Bleeding my Patient, till I got nothing but pure Water from his Veins— You have no alternative, Gentlemen, your Patients will die without it, and you should at least give them a Chance— "A doubtful remidy, better than none." Celsus."— To be limited in the use of the Lancet, in one Fever and not in another, is to prescribe for the Name of the Disease.—

Bleeding will produce Pain, Convulsions &Ca by removing an oppreſsed State of the System— (vide 4th Vol:) Bleeding, in short, but once or twice in these depreſsed States of the System, is like untying a Tyger, and not destroying him afterwards—

In a depreſsed Pulse, examine the Temporal and Carotid Arteries— The Heart & Abdomen, and you will frequently find them beating forcibly, bleed and you will equalize the Excitement— Impreſs your Minds strongly, Gent: with the Idea that your Patients may be apparently worse, tho' they are in reality Better—

Bloodletting has been accused of bringing on the Chronic State of Fever— tis impoſsable— for if you bleed in Proportion to the Excitement, you will never have a Chronic Fever— (vide 4th Vol:—

I wish the Term, Nervous, would be banished from our Books of Medicine — The more I see and consider, the leſs I consider them as being neceſsary for the History of Diseases — Dr. Cullen considered them as the Monarchs of the System — I conceive them as acting a much more humble part — they are only Doorkeepers or Meſsengers to the Bloodveſsels — While the Bloodveſsels may be considered as the Centinals of the System — The Fountains of Disease — they poſseſs this distinction by Birth, for they are the first Born parts of the Human Body. —

If Bleeding be proper in one Fever tis equally so in all — You must never leave a fragment of Fever behind, for like the Polype, tho' minutely divided, still requires repeated strokes to destroy it —

I always avoid giving Emetics in Inflammatory Fevers attended with a determination of Blood to the Head — I have seen death produced by them in several such Cases — I should not be the least aſtonished to see death appear whilst bleeding my Patients — I have however never seen such Instances occur; but I have occasionly seen them drop off, under the Operation of Vomiting & Purging &ca —

Tis a very hard matter to Bleed a Patient to death — provided the Blood be not drawn from a vital part —

Have any of you, Gentlemen, ever heard of a Persons dying, in consequence of a Bleeding from the Nose — An Hamorrhage from the Uterus &ca Dr Young of Edenburgh, in his Lectures on Midwifery, used to tell us that in his extensive practice in that Art, he never knew an instance of an Hamorrhage from the Uterus, destroy a Patient.—

For the Phenomena which call for Bleeding (vide 4th Vol:) — You are always safe in bleeding in the depreſsed, intermitting Pulse &ca which occurs in the beginning of disease — You are also safe, Gentlemen, in bleeding in those complaints, attended with Paroxysms.——

Lecture 5th Feby 5th 1798

For the different Appearances of the Blood (vide 4th Vol:) — I have in my last Publication inculcated the use of Bloodletting to render Death more easy — this single Sentence, I am certain has not cost me leſs than £1000 — 'Tis the busineſs of the Physician to leſsen Human Misery in all its Forms — other Physicians give Laudanum &ca to answer this purpose, but I would advise you to bleed in small quantities, and you will thereby in most Cases, much more effectually leſsen the dreadful Pangs of desolution, than by the use of Opium, or any other Medicine — I have tho't that, the five states of appearences laid down in my 4th. Vol: as being the attendence of morbid Action — and that the Sizy Blood marked inflammatory Action, strictly so called — There is more danger in Cases of morbid Action, than in those of Inflammatory Action — The absence of an Inflammatory Crust, therefore, instead of making you layaside your Lancet, is a vehement call for still persisting in its use, untill you draw Sizy Blood — this Sizy Blood, I have always looked upon as safe Soundings — after a long and dangerous Voyage — You may in fact, Gentlemen, consider yourselves, as having gotten into a good Harbour — Fevers of the most violent kind are said by Dr Faber in a late publication, to fall on the Vital Parts — while those of the more moderate kind, he says fall on the Emunctories — the first he calls Centripetal, the second Centrifugal — these are good observations —

There are Physicians who think it death, to bleed more times, than a set Number in certain diseases — But these Physicians act as Mechanically, as the Taylor, in cutting a Suit of Clothes — tis impyrically absurd — Your Patients you will find, Gentlemen, will seldom recover from Fever, untill you have reduced the Florid Countenances — Physicians have rediculed me for Bleeding my Patients, as they say "Till they become as pale as Jersey ~~Veal~~ Veal" — I have bled my Patients till they became Pale, and I will still bleed my Patients till they do become Pale ——

I would sooner die with my Lancet in my hand, than give it up, while I had Breath to maintain it, or a hand to use it —

In violent malignant Feverz, where there iz a depreſsed State of the System, or Congestion, bleed frequently, and in small Quantities, ~~and~~ and untill you have removed the depreſsed State, and brought about a pure Arterial disease, take your usual Quantity - Riverius waz the Author of thiz mode of Bleeding - he bled hiz Patientz four or five timez a Day, in Malignant Feverz - I am certain I have saved many by thiz mode of treatment, that I should have otherwise lost - tiz important, Gentlemen - I don't know any thing more worthy of your attention - In all Malignant Feverz, Bloodletting should be cautiously used after the 5th Day, because the Congestion absorbz the most of the Blood from the Body, ~~but~~ so that little iz left to act on the veſselz, and by abstracting that little, you precipitate Death - Hence in Drunkardz and Aged People, attend to circumstancez, and cautiously use the Lancet, as these Systemz are easyly thrown into in oppreſsed State — So much for Bloodletting - we will now proceed to the consideration of Evacuantz of another kind —

Lecture 6th. Feby 8th. 1798.

I. Vomits- They are useful in Fevers of moderate Action- as the Bilious and Anginose States- They act by removing the redundancy of viciated Bile from the Stomach, and by raising the Excitement of this Organ, by abstracting Convulsions from the Arterial System, by removeing indirect debility and prostration of Strength, which the Stimulus of Bile had occasioned- to be effectual, two or three should be given thro' the Day- Doctor Cobbam of North Carolina I am informed cured Malignant Fevers by constant Vometing for three or four Days- The Cholera Morbus which is a Bilious Disease is cured by Nature, in exciting Vometing & Purging- Tart: Emetic is the best- the less your Patients drink, the better- Emetics I suspect are only proper, in the early Stage of Fever- when Congestion has taken place, I suspect they are improper—

II. Purges- They are more useful than Vomits- they not only deplete powerfully, but they set up a new action in the Intestines- as Purgatives- Calomel with Jalap- Rheubarb- or Salts are preferable- Gamboge is a very good Cathartic —

III. Diaphoretics - they are 1st. Stimulating Medicines - 2d Diluents in drinking - they act by distention or by diluting Acrimony - 3d Nauseating doses of Emetic Tartar - 4th Warm Bath - 5th. Cold Bath - 6th. Great weight of Bed Clothes - this was the Practice of Sydenham - tis the best mode of exciting Sweating in Malignant Fevers - to be used with advantage it should be kept up for 24 Hours - it should be general, and the Linen should be frequently changed - Sudorifics are seldom neceſsary they are uncertain - the Lancet more effectually answers every purpose, and I never will use them -

IV. Salivation is excited by 1. Giving Mercury every two, three, or four Hours - 2d By Frictions with Mercurial Ointment - 3. By rubbing Mercury on the Gums - where a Salivation, is wanted to be quickly excited, each mode should be used - Bleeding will render the Action of Mercury, much more certain, speedy, safe & effectual -

V. Blisters - are the weakest of the depleting Remedies - they should never be resorted to, when high inflammatory Action attend, unleſs topical affection exists -

From a review of the different evacuating Remedies, Gentlemen, you will readily perceive, how very far inferior they are to Bloodletting - and where one Person is injured or destroyed from Bleeding, a thousand die from the use of other Evacuations - (Think - observe -)

We now pass on to the consideration of other Remedies which diminish Morbid Action - these are - 1st. Cold Air - this diminishes Morbid Action, by abstracting the Stimulus of Heat - Heat acts positively upon the System - Cold acts negatively - That it is a negative property is clearly proven by the Experiments of Chemists and Philosophers - The Body is comfortable in Youth at 62° of Farenheit - in Fever the Heat of the Body is 120° - In Health 96° the difference is 24° - The Patient should therefore have the Temperature of the Room at 24° below 62° or 38° raising or lowering it, in the Ratio of inflammatory Action - To obtain its debilitating Effects, the temperature of the Room should be below - It is a debilitating Remidy, and lessens Excitement - No general Rule can be established as to its application - Much harm has been done by fixing a particular Standard - The Cool Regimen in the Small Pox, has been attended with fatal Consequences, from the extremes to which it has been carried, and by not attending to the above regulations - it must not be used indiscriminately -

When the Lungs are much affected as in Pneumonia, Measles &ca by a diminished Action - tho' Inflammatory Action exist in the Arterial System, Cold is improper - if there be too little Action, Pure but not Cold Air is ~~[illegible]~~ proper - Its effects are most certain when combined with Exercise, as in setting up &ca as this takes down the Excitement and diſsipates the Excitability of the System — 2d Cold Water - it acts like Cold Air, in abstracting Heat - it is applied in two ways - 1st By ablution - 2d By dashing it on the Body - in the former way it acts as a Sedative - In the latter as a Stimulant - the former of these two Modes, is only proper in inflammatory Fevers - It is not however neceſsary to use it generally for all the purposes are answered by applying it to different Parts - as to the Head, Feet, and injected into the Bowels - The Second Mode of Application acts as a Stimulus - I know one Case of instant Death by this means during the Yellow Fever of 1793 - Chillineſs sometimes attend Inflammatory Fevers, in which both methods are improper - The Cold Bath is used with advantage at Breslau - It should be applied for a length of time to obtain its Sedative effects -

The Indians and Africans diminish Exceſs of Action in Small Pox, by plunging into Cold Water - And Mr Bruce mentions that at Meſsuah they used it to cure the Bilious Fever, by deluging the Patient both externally & internally - During the Plague in London a Man was cured of it by swim-

-ming across the River Thames in a Delirium — Here the Morbid excitement was taken down and with it the Excitability- The Feet immersed in Cold Water will reduce the Pulse 20. Strokes in a Minute- Pounded Ice inclosed in a Bladder, acts as an excellent Sedative- They all act 1st by subtracting the Heat from the Body, and 2ly. Mechanically, by abstracting the Muscular Fibres of the Bloodvessels —

Physicians have objected to the applications of Cold Water as being prejudicial to Patients, while under the use of Mercury- They are wrong- For what do we direct our Patients to avoid Cold, while they are under the use of Mercury-? Is it to prevent the Mouth from swelling and becoming Sore? if so- should we not rather advise the application of Cold in its various forms, in inflammatory Fevers, as it brings about the wished for Effects much more quickly —

2d Abstemious Diet- As Food is a Stimulus, it should be abstracted in disease- Toast and Water Beer &c.a will be sufficient-

3d Light- Should be abstracted in a great measure- I have seen the Light from a sparkling Hickory Fire, produce Delirium in a Fever —

4th Fear - It abstracts the Stimulating Passions, and when moderate, I am persuaded it would be of service, in inflammatory Fevers —

5th Rest - should be strictly enjoined - I have known many instances where even very short Journeys where undertaken in the incipipient State of Inflammatory Fever, proving fatal. —

6th Setting up. - In a Chair is a good practice - it frees the Patient from the Heat of the Bed, and thereby gives there Bodies free access to the Air —

7th Diluting Drinks - are of much service in Cases where an Acrimony exists - too much cannot be said in favour of them - Toast and Water - raw Apple Water, and Tamarand Water, all sweetned, are excellent Drinks for this Purpose - as likewise is Lemonade - Milk and Water - Jelly Water &ca Thirst should not be the Measure, to invite us to them - they should be urged at all times -

8th Filth - should be removed from the Body, by Soap and Water - tis very prejudicical - and from the Teeth — Offal Matters, should be immediately removed from the Rooms of the Sick —

9th Medicines, ~~said to be sedative~~ acting by deverting Morbid Action from one part, to another - these all come under the Head of Evacuants -

10th Medicines- Said to be sedative- as 1st Nitre- this should be preferred to all the other Neutral Salts- except in Bilious Cases, when Glaubers Salts should be preferred- gr. x to xx of Nitre every two ~~Hours~~ or three Hours- of Glaubers Salts ʒij every two Hours- 3. Crem: Tartar: and Acids of all kinds are servisable- 4. Sugar of Lead, recommended by Sir Geo. Baker, in Hamorrhagy- I have sometime given it in Diseases of too much Action, with advantage- 5th Fox Glove- I am disposed to believe might be given in Inflammatory Fevers, with advantage- 6th Sweet Oil- the Body anointed all over, with it has been used in Turkey in Pestilential Fevers with considerable Success- A Sweat follows the application- The Samaritans Balsam, which is a mixture of Sweet Oil and Wine, has been used in Fevers- it relieves the Pain of a fresh Cut immediately- In Pleurasys and Coughs, Oil acts very agreeably, by sheathing the Fauces from the Irritating discharge, which takes place—

Lecture. 7. Feby. 7th 1798—

These are States of Fever, in which Stimulants are necessary- They are either external or internal- The former are,

1. Warm Bath-
2. Cataplasms-

3. Fomentations, to the Bowels & Limbs-
4. Blisters &c.-

The latter are divided into Medicines and Aliments, under the head of Medicine, are

1. Fermented Liquors-
2. Empyrumatic Oils-
3. Musk-
4. Castor-
5. Opium-
6. Æther-
7. Mercury-
8. Bark-
9. Volatile Alkali-
10. Invigorating Passions

Under the head of Aliment, they are Vegitable and Animal— In the administration of Stimulants, attend to the following directions— 1. Begin by giving small Doses, and the weakest first, and proceed gradually to increase them— 2. Give but one or two at a time— 3. Give them in Rotation, as the constant use of one prevents the System being acted upon by it— whereas by omitting it for a time, its effects are produced again, nearly as before— 4. Give them constantly— this applies, particularly to internal Stimuli, as Opium—

Of Stimuli, consided seperately—

1. Wine- This consists of a Spirit and an unfermented Matter called Must- The White Wines, contain more of the Nutritious- Cordial- Antiseptic, and Stimulating Properties than the Red- They should be preferred in all Cases of Acidity.- They may be given either alone or diluted- and in large Quantities as from a Quart to three Pints of the White Wines in the 24 Hours, and from one to three Bottles of the Red in the Day- Dr Campbell gave as much as Six Pints to a Woman in one Day- It is remarkable, that Persons in the Typhus State of Fever, who when in Health, could not drink half a dozen Glasses of Wine without being intoxicated, will drink from two to three Bottles without any sensible Effects-

I think I once lost a Patient in this State of Fever, from the ignorance and obstinancy of his Parents, who would not permit him, to take more than one or two Glasses a Day; for fear as they said, of sending him intoxicated into the Presence of his Maker—

2. Malt Liquors- Porter is preferable to all- Its bitter gives it a Tonic property, and is not liable to decomposition in the Stomach — From

one to three Bottles, may be taken daily — Dr. Littsom has the Credit of first introducing it into Practice —

3. Distilled Liquors — Spirits are far inferior to Wine and Malt Liquors, as they are less nutritious, They are stimulating without any other effects — they may however be given to such as have been accustomed to their use with advantage, and may be applied to the Skin externally and by snuffing up the Nose —

4. Empyreumatic *Oils* and Aromatic Oils — Of the former I have only tried the Oil of Amber — which is particularly useful — In the Hiccup, which attends the last stage of Fevers, it proves very servisable — tis good after Evacuants, in all spasmodic Affections, it acts upon the muscular Fibres — Oil of Mint, under the head of *Volatile Oils*, is very servisable in assisting the stomach to retain its Medicines —

5. Musk and C. Castor — I am very little acquainted with the stimuli taken from the Animal Kingdom — these mentioned, succeeded Album Graecum &c and the loathsome Remedies — Lately an attempt has been made to introduce the Urine of a Pole Cat, into the List of the Materia Medica — I have seldom given any of these stimulants, from the Animal Kingdom —

but when I have, they seldom appeared to have much good Effects—

7. Opium—this is what the roman Poet calls his Hero—"Ipse Agmen," a Host of itself—I believe it to be a stimulus, and a most powerful one—All its Effects may be explained on this Principle, and this Opinion, I published in the Phylosophical Transactions, long before I heard of the name of Dr. Brown in medicine—tis true I knew him in Edenburgh, when a student; but he was then distinguished, only for his profanity—for his velocity and acuteneſs in writing, and for his being a very great Latin & Greek Scholar—That Opium is a stimulant, I infer, from its Effects upon the Human Body, in Health and Sickneſs—thus when given in small doses, it increases the fullneſs, and diminishes the frequency of the Pulse—& in large Doses, inflammatory Action will be produced—it acts upon the Surface of the Body in producing perspiration, and its Effects are analagous to those of Spiritious Liquors—It produces Sleep in the System, when it is below the "Sleeping Point" by raising it to it—or if it be above it—by indirect debility—It acts upon the same person, differently, at different times, according to the state of Excitability—30 Drops affecting a

Person more at one time, than 300 would at another Doctor Bucquet at Paris, took in the Course of one Day, a hundred Grains of Opium and a Pound of Æther in the Cholic, without any bad Effects - It enlivens the mind, and removes Flatulency from the Stomach - All other Stimuli have there different Systems to act upon - while Opium poſseſses an universal Empire over every part of the Body - Other Stimuli may be compared to a Candle, which spreads only partial Light, while Opium like the Sun, gives universal Light to all Nature - I was first led lead to suppose it a Stimulus from the following fact - A Gentlemen in the lowest State of Typhus Fever, took by mistake a Tablespoonful of Laudanum, instead of the same Quantity of Bark Mixture - and immediately fell into a deep and sweet medicinal Sleep - which lasted forty eight Hours, at which time he awoke, relieved from all his Symptoms, during his Sleep, his respiration was easy and natural - The want of sleep is more frequently occasioned by an Exceſs than a deficiency of the Dose - I have frequently induced Sleep with five or ten Drops of L. Laudanum when 50 would not have had the same Effects - Sleep should rather be brought on by raising the System to the "Sleeping Point," than by inducing indirect debility as the latter, tends to Effusion—

The following directions should be attended to in giving Opium—

1. The leſs the deficiency of Action—the leſs the Dose—by attending to this a few Drops have salutary Effects—

2. The Dose should be increased—

3. It should be given in small doses during the Day—and a large one at Night—as then, the debility is greatest—

4. In all Cases of sudden direct debility, it should at first be administred in small doses—Dr. Stedman relates a Case of a Boy, who having been previously debilitated by an Emetic, died in consequence of taking only 30 Drops of Laudanum, which was certainly a large Dose for the State of the System—

5. After having been used for sometime, it should be laid aside—and other Stimuli used in its place—

6. It should also be administred by Glyster—when its Action begins to leſsen by the Mouth—

7. The Dose should be leſsend, as the Patient recovers, in proportion to the Ratio of Action in the System——

8. Æther—may be given after Opium—from 30 Drops to a Teaspoonful, every Hour—'tis a very Volatile Stimulus——

.9. Mercury - I have ranked it under the Head of Stimulants - tis a powerful one - In 1788. I attended a Gentleman in a low State of Fever - On the 13th or 14th Day he complained of a dull pain in the region of his Liver - Suspecting an obstruction in that Viscus, I ordered half an Ounce of Mercurial Ointment to be rubbed on the part affected - which induced a Salivation, and produced a favourable Crisis - This Medicine may be given with advantage in the Typhus Fever - In fact in every Chronic State, when other Stimulants fail - I make it a Constant rule to use this Medicine liberally -

10. Bark - is good, both as a diffusable and durable Stimulus - It has many advantages in low States of Fever - It should always be began in infusion - then with Laudanum, as follows - Take Bark, Mint water, Laudanum and Huxams Tincture and mix them together - The same rules in its administration as in that of Opium are proper - When it fails, it is because it is not given in sufficient large Doses - It may be given from one to ten Ounces a Day - When it is rejected, Gentian and Colombo should be substituted; but they are no more to Bark, than Assafœtida is to Opium -

11. Volatile Alkali - Pringle long ago discovered Antiseptic Qualities in this substance - but its use I think arises entirely from its stimulating the System -

From five to ten grains may be given in form of Pills—

12. Invigorating Passions— The State of the Patients Mind, in these low States of Fever, should never be neglected— Anger and Terror, have both been attended with Success— By Anger tis said Dr. Cullen once prevented an attack of Typhus— Courage has done wonders— Joy has also had happy Effects— Hope is the Cordial passion most under our direction— it should be inspired by the recital of agreeable News— The Midnight tales of old Women should be guarded against— A Pious Clergyman should be permitted to converse with the Patient— I have seen happy Effects follow their visits— It composes the mind, and inspires them with a Cordial Passion of Hope— A good answer to make your Patients, when they enquire about their Friends who are ill, even though they be dead, is to say they are very low, but hope they will soon rise and get up again—

13. Pure Air— Too much cannot be said in favour of Pure Air— I say pure Air— for Cold Air is very hurtful in these States of Fever— Dr. Lind mentions many Cases, in which a change of Air, change the Yellow Fever, into a common Intermittent— this, among other reasons proves the Unity of Fevers— To encourage the Circulation of Pure Air— 1st. The Room should be kept empty— 2d. There should be

a fire Place in the Room, and a Fire kept in it - 3d. All Causes should be avoided that tend to corrupt it - 4th. By correcting its impurity, by even keeping a fire in the middle of the Room - Keeping the Windows open Earthen Walls are said, neither to retain, nor propagate Contagion; this is left on Record by Count Saxon - The Effluvia of Smoke in curing Fever did not escape the notice of Mr. Bruce - for he says "those who were poor and lived in smoaky Houses escaped the Fever of Meſsuah - The deflagration of Nitre, disengages Pure Air - Tubes from the outside to the inside of the Patients Room, has been recommended as a good Method of purifying the Air - The smell of Venegar whether pure or burnt, is very greatful in this Fever - but it should not be sprinkled on the Floor - as it is apt to putrify there - Water should be preferred to sprinkle the Floor with - Volatile Linament is now used, applied to the Stomach and Bowels - And Injections of Bark, Wine & Laudanum are also very servisable —

II. Aliment - this is either Vegitable, or Animal - Under the Vegitable are, Sago, Panada, Tapioka &ca - Animal Food has been objected to, on account of its Alkalescent tendency; but without foundation - This is far superior to Vegitable, because it is more Stimulating - Oysters and Chickens are grateful - Where Soups are objected to - Solid Food may be recommended - I have cured many by attending to Aliment in low Fevers - The degrees of Appetite should not regulate the administration of Food, for we know there is often Dygestion without Appetite and Appetite without digestion - you should urge your Patients to eat often, though but little at a time —

III. External Stimuli - are 1st such of the internal Stimuli, as prepared, as to be applyed externally to different parts of the Body - as the Nose - the Temples - the external Region of the Stomach and Bowels - the Limbs - and lower Intestines, by way of Glyster —

2. Cold and Warm Water, but these seldom can be used with safety, on account of the great debility which Succeeds, getting out of Bed —

Dr. Tilton was nearly destroyed by attempting to use it, during the War - All these good Effects may be obtained, however by means of Warm fomentations, to all parts of the Body, of Brandy and Water - Pediluvium - Spunging the Body with Cold Water and Warm will answer —

Cataplasms of Bread and milk, should be applied to the Feet, with Beer- Garlic and Flowers of Mustard may be applied to the Feet; but should not stay on longer, than two or three Hours, If these fail, the external Application of Bark, moistened with Wine will have very good Effects- Doctor Broadbelt of South Carolina, was cured by being wrapped in a very strong infusion of Bark in Wine

3. Blisters- are not improper; but they are seldom of much Service- they are what Dr. Brown calls "extreme Unction" in medicine- There is a Point in the System which I have called the Blistering Point, after which they should not be applied-

4. Fomentations of Volatil: Linament: Mint Water &c.a are proper- 5. Caustics- In the low Lethargic State of Fever, they are attended with eminent Service to the Patient- they should be applied between the Shoulders- 6. Boiling Water and Hot Irons- should be applied in Syncope and Apoplexy as we wish them to act quickly- When they are not at hand, a Hot Coal will answer.—

Important Queries- 1. Is it proper to set up in the low State of Fever? No- I have seen many deaths, in consequence of rising to go to the Close Stool. I once saw death evidently hastened by turning from one Side, to the other — They abstract Stimuli by exertion — Cloths or a Bed Pan should be used, to remove the Patients Stools — 2. Are Cold Drinks proper? No, they should be warm, unleſs there be local Affection of the Stomach, as happens in the last Stage of those Fevers, from a Retreat of Excitement to this Organ — 3. Is Purging proper? No — one Stool a Day, will be sufficient, but no inconvenience will arise from a Retention of the Faeces, two or three Days — 4. Is Sleep proper? To judge concerning this, the Pulse must be attended to — if it be active, Sleeping is proper — if very low, the Patient should be frequently waked — To take some Stimulus or nourishing Diet —

These observations, were to shew the immense consequence of frequent visits to our Patients — The neceſsity of our frequent attention, will also occur to you, when you ~~considder~~ consider how readily one State of Fever will paſs into another — I will here resque a bold Aſsertion — If the Physician, was well acquainted with the State of the System — if he had an uncontrolled Government over his Patient — ~~to~~ ~~diseaſe a Fever~~ If he were always to be with him &ca I am sure it would be impoſsable for a Patient to die of a Fever — Unneceſsary attendants should be prohibited from your Patients- especially the Friendly Visits of Physicians who are not the attending or consulting ones- They are not responsible for the Life of a Patient, and their Conversation frequently tends to destroy the neceſsary confidence in the Prescribed medicines and attending Physicians— A Physician should always study the Climate and Diseases of the part, where he lives- then the habit and Constitution of his Patients &ca But the State of the Pulse- the State of the System, I repeat it again, the State of the System, should be the Compaſs, from which we should never take our Eyes in directing our prescriptions- 'tis this, this, should alter and increase the Dose of our Medicines- 'Tis like a ~~Sh~~ Ship at Sea, whose Sails, must be spread and regulated, with every varying change of the Wind—

Lecture. 8th: Feby 8th 1798.

Convaleſcence- We have finished our description of Fevers generally- Yet after the termination of Fever, Patients are frequently the Objects of Medicine— Convalescence, is itself a Disease, composed of debility, with Exceſs of Excitability- and with several Symptoms of Fever- Its Symptoms are 1. Wakefullneſs- 2. Sickneſs, and Vomiting- 3. Defect of appetite- 4. Swelled Legs- 5. Obstructed Viscera- 6. Ulcers- 7. Drawling, or defect of

Speech- 8. Impaired memory- 9th Alteration of the Voice- 10. Costiveneſs- 11. Falling off. of the Hair, or its becomeing Gray- 12. Impaired State of the Understanding- 13. Cough- 14. Depravity of the moral Faculty, sometimes occurs- 15. A Discharge of the Bile sometimes takes place after Bilious Fevers- 16. Peevishneſs will happen frequently, and is sometimes preceeded by Chills- The Cure consists in Cordial Drinks- nourishing Diet- of the former Porter, and of the latter, Chacolate, wild Fowl- Beef Stakes- Oysters,- &ca we must let our Patients eat often- but a little at a time- Fruits of every kind are proper, in the Convalescency of Fevers- we must however, for sometime, use them, moderately- Mr Howard tells us a relapse, has been sometimes induced 40 Days, after ~~the~~ a recovery from the Plague- by eating Animal Food- And Mr Bruce tells us that after a severe Fever, even the smell of Meat, had a very bad Effect- The Premature indulgence of the Venereal Appetite, frequently produces a relapse- as also, the too great exercise of the Understanding- Dr Campbell, relates a Case, of a Convalescent, who died immediately after answering an interesting Letter- The usual Stimuli should be cautiously applied- Hurry your Patients, as soon as poſsably out of the Room, in which he has escaped the Grave—for his empty Pill Boxes—Bottles, Rags—Fragments—Plaisters &ca frequently produce a relapse by a debilitating Aſsociation of Ideas—I would strongly recommend a Change of Dreſs—shaving and Combing the Head—the Patient thinks himself well—I have heard of a Gentleman in South Carolina, who always cured himself of lowneſs of Spirits, by going into his Wardrobe and changeing his Clothes—Change of Air—Gentle exercise in a Carriage; but not so violent or long continued as to produce Fatigue—for Novelty has delightful Effects

Huxhams Tincture of Barks—is an excellent Cordial—in Convalescency from Fever—1. If the Fever was taken by infection or Contagion, we must avoid it—2. We must avoid Purging, for its debilitating Effects may be too-severe—

For some of the Symptoms attending Convalescency, the following Remedies may be employed—1. For the obstinate Wakefullneſs, a few Drops of Laudanum, or some Porter, will be proper at Bed Time—2. A Sickneſs in the Morning and Vomiting, may be prevented by eating a small quantity, during the Night—3. A few Drops of Elixr. Vitriol, three or four times a Day, or a preperation of Bark and Colombo Root, will be very serviceable to restore the Appetite—4. Swelling of the Legs will be removed by rubbing them upwards, and in the Morning, only,—5. Visceral Obstructions, may be removed by

Bleeding- if the Pulse will bear it- A Mercurial Purge or Mercurial Friction- 6. Ulcers, according to Pringle may be treated with stimulating Applications- I have known Fatuity cured by the Cold Bath, and I have known Lying cured by the same Remedy- The impaired State of the Faculties, is very hard to remove- Time and good living, will most probably remove them- By attending to the Methods laid down, many have been saved from the Grave- From the present succeſsful mode of treating Fevers, not one in a Hundred- tho' 30 Years ago, ten out of that Number most generally died- Let us go on, and I doubt not, but it will be as rare for a Man to die of a Fever, as it is now to die of a Tooth Ache-

Great care is neceſsary with regard to Nurses- for they frequently obviate the effects of a Physician, by a total neglect, or improper Exhibition of the Medicines, and Diet prescribed- Where Patients are in danger, we should only trust Nurses or Attendants of established Characters-

Consequence of Fever- 1. An increase of Growth in Young People- 2. An increase of Fat- 3. It removes Chronic diseases- 4. Sometimes it removes Barrenneſs-

How does Fever act in producing these Effects? It acts, by producing a more extensive Base, for Stimuli to act upon ___

Critical Days—

It is poſsable they have been accurately marked in Antient times; but from the present corrupted State of the System, there is no accurate Judgement to be formed, respecting them— That there are such Days in the uncorrupted State of the System, no one I presume will deny— The Tertian, Quartan and Quatidian, are all original forms of the Intermitting Fever— ~~'tis impoſsable, and there never was a~~ Some Physicians deny, the Yellow Fever, being an Intermitting Fever— 'tis impoſsable and there never was a Fever yet, but what had Intermiſsions— except the Patient was carried off in the first Paroxysm—— And they who deny it, must want both Understanding and Candor——

The 3d. 5th 7th. 9th 11th are the Periods of the Tertian ~~Typhe~~ Type— from this, debility gives it the Quartan Type— and the 13th. 17th. and 21st. are the Periods——

However plausable this Doctrine, may be, it has its difficulties— as thousands have Crises, on non Critical Days— However, the present mode of treating Fevers, destroys these Days altogether—— My Cotemporary at the College of Edenburgh, Doctor Balfour, throws aside Critical Days, and substitutes Critical Periods— The Doctor reasons ingeniously— He accounts for the return, and security of

Exacerbations, from the influence of the Moon — 'Tis remarkable the Bile is always more abundant, about the Full and Change of the Moon — By attending to the Periods of the Moon, he says his Practice was much more succeſsful — he gained reputation &ca &ca — At the Change of the Moon, he says his Patients were always worse — I am disposed to adapt, in a great measure, Dr Balfour's Opinion, as I have lately been informed by Dr Pincard, an intelligent Physician that the influence of the Moon is so strictly observed among the Inhabitants, on the River Demerara in S. America some thousand miles from the Sea shore, that if they are asked to dine out, they always examine the Almanak, to see on what Day the Moon fills, or changes, if it occurs on those days, they will not go, as they always look out for an attack of Fever —

I here leave this Subject, Gentlemen, and recommend it to your further consideration, 'tis worthy your attention —

Lecture. 9th Feby 9th. 1798

Prognosis

Prognosis was the busineſs of Physicians, when the Priest and Physician were combined- I have been led to believe, that the Doctrine of Prognostics is one half false- The further the Pulse varies from the natural, so much the worse- Patients seldom recover, when their Pulses beat 180 in a minute- I once felt a Pulse beat 204, in a Child, just before it died of Hydrocephalus Internus—— The Pulse generally becomes languid, and irregular just before death- but this is by no means, always the Case- Little can be known from Pain, in the Prognostication of Diseases

Women bear it better than men, because there Systems sooner run over the Point of Pain- there may be disease without Pain; but there cannot be Pain, without Disease—— Pains are frequently disproportioned to the danger, as in the Toothach &Ca ——

Pain, in most Diseases, is a favourable Symptom- 'tis generally a Symptom of Convalescency from mania- 'tis a good Symptom in malignant Fevers &ca

Great Heat or constant Coldness are Symptoms of a malignant Fever- A Coldness of the Wrists, denote death to be near at hand- A Coldness of the Breath is a dangerous Symptom- I never knew one to recover ~~where~~ after it had taken place- A red Eye shews inflammation or Congestion in the Brain- A muddy Eye denotes a

Fever of Malignity – Preternatural Heat of the Cheeks and Palms of the Hands, are bad – Dilated Pupils – Strabismus – double vision – Watery Eye – Blindness &ca are all unfavourable Symptoms in Acute Deseases – A disposition to shed tears easily, is a favourable Symptom – The Patient suddenly turning to view his Physician, upon entering the room, is favourable – Tinnitus Aurium is alarming – Deafness, mostly favourable – A preternatural acuteness of hearing, denotes a Crisis to be near at hand, sometimes favourable, sometimes unfavourable – Insensibility to Cold, Burns and Blisters are alarming – A very sensible soreness to the touch is favourable; I always congratulate my Patients upon the appearence of this Symptom, it shews an extension of Excitement – Running at the Nose, always favourable – Accute sense of smelling denotes a Crisis near at hand, rather favourable –

White Tongue, in malignant Fever, favourable, a dry Tongue always alarming – Moist Tongue, favourable – Dark brown Tongue from Fever, shews a Bilious Affection – 'tis favourable – A Dark colour of the Tongue, will continue often, some days after the Person is on the recovery – Tremors of the Tongue, or an inability to protrude it, are bad – Furred Teeth, hanging Lip, and under Jaw, and Gnashing or Grinding the Teeth, are all unfavourable Symptoms—

Yawning, sneezing and screatus are favourable— a Chilly fit, in the close of a Chronic fever, is favourable, it shews the breaking of the Fever— A quick and sharp Voice, are alarming, if it is not natural— Drawling Voice, favourable— Loss of Speech, unfavourable— Priapism, sometimes favourable and sometimes unfavourable— Frowning shews an affection of the Brain 'tis a Symptom of great Malignity— Resemblance in the Face, to the Patients Ancestors, is unfavourable— The Hippochratic Countenance, which may be known by the ghastly Look, sharp Nose, hollow Eyes— sunk Temples &ca is always a dangerous occurrence— Alternately slow and quick Respiration— hollow sound in breathing— Rattling of Phlegm in the Throat— working of the Shoulders in Breathing, and expansion of the Nose and Cheeks, are all unfavourable— Position on either Side, most favourable— on the back, less so— Feet drawn up, bad— and sliding down in the Bed still worse— Peevishness is ~~un~~favourable— Silence, and asking for things uncommon, are unfavourable—

Difficulty, and Noise in swallowing, are bad— Thirst in the last stage of Fever, is unfavourable— it shews the last retreat of the remains of morbid Excitement to the Fauces— No thirst in the beginning of Fever is alarming— A return of former Habits, as for Tobacco &c are favourable— it shews ~~the~~ a return of the Aſsociations of Health— A Suppreſsion of Urine, shews an Engorgement of the Veſsels of the Kidneys— pale Urine bad— turbid Urine, or Urine with more sediment, more favourable— Bloody Urine, bad— Involuntary discharge of Urine, unfavourable— Green and Black Stools shew Morbid Bile— Stools which corrode the Rectum shew an Acrid Bile— They are unfavourable— Thin Faces discovers weak Bowels—— Absence of Smell in the Stools, is bad— A return of Smell in them is always favourable— Crepitus— a good Symptom— An involuntary discharge of Faces— unfavourable— A regular Stool, every day, favourable— Partial Sweats, are, Bad— a cadaverous Smell, unfavourable— Sudor, is Sweat, properly so called— Mador, is a softneſs of the Skin— Hæmorrhages more favourable from the Anus &c— After all, Gentlemen, you will find there is no one of them, but will deceive,— And like Genl. Woolfe your Patients will often die in the Arms of Victory——

Two Inferrences may be drawn from what has been said— 1. We should never give over our Patients, especially in Acute diseases— 2. We should never prognosticate the Iſsue of a Disease — If you should always say they will die — You will then be like the Irishman, who was ~~Sure~~ sure he would draw a Prize in a Lottery, because he thaught he would draw a Blank — But to be serious — never say you can cure a Disease, positively — never prognosticate, positively as to the Event — they are equally signs of Quackery — When I have been asked the Event — I generally answer by saying I have seen better, die — and those who are worse, live — this, tho' it says nothing, generally satisfies —

Signs of Death — I know, but one sign of death Gentlemen, — I mean, Putrefaction —

Lecture. 10th Feby 12mo 1798 —

We now come, Gentlemen, to consider the different States of Fever — and 1. Those which affect the Arterial System without Local Affection — 2. Those which affect the Arterial System with Local Affection — 3. Such as paſs by the Arterial System, and fall on other parts — These I have called Misplaced States of Fever — and

1. Such as affect the Arterial System, without Local affection —

1. Malignant State of Fever — Tis what Dr Cullen, improperly calls the Typhus Gravior —

A small, depreſsed, tense, intermitting Pulse &ca attend this State of Fever – 'tis a state of the highest Excitement – 'tis disease beyond Action – Opium, Poisons, Contagions &ca act in this manner, and prostrate the Powers of the System, so much as frequently to occasion immediate death – A weaker Action of these Stimuli, produces a kind of Palsy in the Arterial System ——

In diſsections from other Fevers, the Arteries are found empty – here they are, as it were saturated with Blood – owing to a simultaneous Action of the Veſsels – 'Tis of great consequence, in Practice, to attend to the loſs of Action in the external Veſsels, and the violent Action that exists internally. in this State of Fever ——

The Acrid Excretions, do not, as supposed act, as ferments, upon the System – they act like Caustics in increasing Action – The Malignant Fevers are not owing to a Putrid Ferment, introduced into the System – The Symptoms and Appearances, which resemble Putrefaction, are owing to the Violent Action of Stimuli – I have drawn diſsolved Blood in Gout – and Doctor Allexander of Baltimore, has lately informed me, he attended a Patient in Gout, who died, covered with Petechiæ – and who will pretend to say a Putrid Ferment, was the Cause—

Under the Malignant Head—comes—

1. Plague— The Malignity here, is more unusual than, in any other State of Fever— I never saw it—therefore shall give you its description from Books—

The Plague is the offspring of Human Effluvia— I say Human Effluvia, to distinguish it from the Effluvia arising from dead, putrid, Animal & Vegetable Substances— It generally originates from among the Poor People, in crouded, dirty Houses—'tis a higher Grade of the Jail and Ship Fever— It has declined in those places, where it used to prevail, since Cleanlineſs has been observed— It is generally, but not universally Contagious— It can be communicated at no further distance than ten or twelve Feet— The Contagion of it, attaches itself, for Months and even Years, to Wool, Cloths, Hair, Wood &c.— White washing destroys Contagion— Dogs and Cats spread the Plague while it raged in London— The matter coming in contact with the Fingers, will propogate it— There was an instance, where even ~~the~~ a small degree of matter attached to the Latch of a Door, communicated this Disease— The Plague like the Yellow Fever, requires an Inflammatory constitution of the Atmosphere, to render it universal or general— Moist and Cool weather, favours ~~this~~

the Spreading of this Fever, like other Contagious Diseases, while very dry, Cold, wet and hot weather destroys the Contagion— The disease may be taken two or three times—a proof that like the Yellow Fever (and not like the Small Pox) it does not depend ~~upon~~ on a Specific Contagion——

The disease generally attacks, in two or three Days, after the Application of the Cause—it sometimes however destroys Life, Suddenly,—It requires some exciting Cause, to put it in action——

Garlic, Spices &ca have been of service in preventing this Disease,—Tobacco, that detestible weed, never has been of any service in preventing it— Low diet and small Bleedings, are of essential Service in preventing it—Inoculating will not prevent, future Attacks—but it will render the present, much milder— An EarthQuake has destroyed the Contagion of the Plague— The Plague is a Violent Fever—it appears in the form of a Quotidian, tertian and quartan, and continues even to 40 Days— It is like the Yellow Fever, must depend on a Specific Contagion; because there is almost universally a Crisis; about the third or fifth Day— 'Tis not so—not to adduce other reasons— Doctor Pincard, has informed me, he has seen numberless instances of the disease being spun out for Days and Weeks together— the Plague chases away all other Epedemics ——

Cure—

1. Bloodletting, copiously—

2. Sweating— Dr Sydenham was forced to adapt this method, from the prejudicies of his Patients——

3. Purging—

4. Vomiting—

5. Salivation— Cold Air, Cold Water &ca are all Remidies which take down Excessive Excitement—

I will only add that it never appears without producing dissentions among Physicians— some making it an indigenous Disease— while others derive it from Importation— they might with equal propriety, derive it from the Planetary System —— All the other Malignant States of Fever are cured by the same Remidies——

That Malignant Fever, which is brought on from an over dose of Opium, which I shall call the Opium Fever is effectually cured by Bloodletting, Vomiting & Purging—

This is of immense application to our Principles in Medicines— it shews the Unity of Causes & Effects— It shews us we are unable to unlock a Door with our common Key— which has been locked for Ages——

Lecture 11th Feby. 13th. 1798

2. Hydrophobic State of Fevers– In intering on the consideration of this disease, I feel as David did when he approched Goliah– and my Remidies Gentlemen, shall be as simple as the Sling and Stone of the Shipperds Boy – It is produced by a Rabid Animal; Blood must be as certainly drawn, as for the Inoculation of the Small Pox– Putrid Aliments– Famine, Thirst– Fear– Wounds– An Association of Ideas– Contagion of the Typhus Fever– Hydrocephalus Internus &c as remote Causes, act directly in inducing Morbid Action– The Saliva of a Rabid Animal produces the highest grade of this Disease– It acts on the Throat, as some Contagions act on the Liver &c Speaking of Water– having it poured from one Vessel into another– and a sight of it, will all excite a Paroxysm of the Disease–

That it is a Fever of a violent kind, I infer, 1. From its being the consequence of a Fever in a Rabid Animal– 2. From the highest Feverish Symptoms– as the red Eye– Head Ache– inflammatory Pulse &c 3. From the Causes which produce it– as Contagion, Penury of Aliment &c

The Symptoms in a Dog are–

a dull Eye - feirce look - slavering - Madneſs &ca

4. It also occurs most frequently at those Seasons when Epidemic Fevers prevail - as an Author has acurately described — Why should not this Disease affect Dogs and the Human Species, as well as the Plague &ca

'Tis nothing more remarkable that this Disease should produce a dread of Water, than that other Causes, should in other Fevers induce a hatred to Aliment - an intolerance to Light &ca — Doctor Trotter has lately published some good observations on this Disease —

Formerly when I lectured on this Disease - I said I made no doubt but the time would soon arrive, when we should have perfect controul over it - And I am happy now to inform you that, that Time has come - for it yields with certainty to our Remedies —

The Symptoms, in every respect, are similar to those of other Fevers - vide Dr Fothergill - Dr Bourhaave - Dr Mead describes this Disease, as being accompanied with a slow, and intermitting Pulse - uncommon sensibility &ca — Dr Plummer, in the 6th Vol: Edenburgh Med: Eſsays - describes Sighing - Hiccup - watery Eye &ca as attending — Dr Arnold takes notice of the sparkling Eye - Vomiting - wakefulneſs - Convulsions - inflammatory Fever &ca - in his description of this Complaint -

No Symptoms, occur here, than do, in other Malignant States of Fever, (vide Dr Meaſe, Inaug: Diſsertation

In a Case which came under my Care the Pulse was so very tense, as to deserve the name of Iron Pulse - He was very low spirited - sighed much &c - I was called at a late Hour - took some Blood from him which was very sizy; but he died next Day ~~in~~ in Convulsions - It was not till after his Death, I found he had been bitten by a Mad Dog - A more genuine inflammatory Fever, I never saw than it was - There is a Case, related in the Med: Com: Eden: Vol: IX. where no Fever attended - Dr Baumgarten takes notice of a Priapism, as attending this Disease - I saw the same Symptom, in two Cases, and both ended fatally -

The Body in this, like other Malignant Fevers, speedily putrify, after death, if no Bleeding has been used - The Blood is also found fluid in the Veſsels after Death - Morgagni, in his diſsections takes notice of black Bile being present in the Stomach and Gall Bladder - Petechia have also been observed on the Skin, in some Cases - All these Symptoms, strickingly mark the similarity of this, with other States of Fever - A Patient has died of this Disease, without a single mark of Inflammation - here Morbid Action went so far, that the Patient died before inflammation took place - I have no doubt that if the Patient had been bled, he would have had inflammation - Nothing more occurs here than does in other Fevers -

From what has been said, therefore, I must conclude the Hydrophobia to be, in every sense of the ~~world~~ word, a Malignant State of Fever — requiring also the same remedies ——

Cure —

In entering upon the Cure of this disease, we are naturally led to enquire, into 1. Such medicines as will prevent, and 2. Such as will cure —

1. To prevent the Disease — the Virus should if possible be destroyed — 1. By cutting out the part bitten, if it can be done two or three Hours, after the Bite — Dr. Wistar I am informed prevented the disease by this means — 2. By washing the parts well with some Liquid — 3. By keeping the wound open and running for some Months Doctor Wistar says, he prevented two Cases by this method — 4. Low diet, as recommended to prevent other Fevers — It like the willow Shrub, bends beneath the Action of its Cause ——

I shall here take no notice of the long List of Preventions — they have I believe, seldom done any service

The Period, it commences, after the Bite, is from 15 Days to 11. Months — 40 Days, is I believe the general Period — The Disease from Fear, has been prevented by exciting Anger — I am satisfied, this disease cannot be communicated, unless the matter be instilled into a wound —

~~I am satisfied~~ or applied to parts where the Skin is very thin, as the Lips- The Blood cannot communicate it- The Milk in Diet, taken from Cows, labouring under the Disease, has in several remarkable Instances failed of communicating the Disease- While directing these preventives, we should not neglect to inspire the Patient with Hope- and cheer the mind, by aſsureing him of a certain Prevention ——

2. Remedies neceſsary, after the Disease has formed —— 1. Bloodletting- Every thing conspires to prove the utility of this mode of proceeding- From 100. to 200. Ounces, will be neceſsary, in most Cases- The Friends of a Girl, who was labouring under Canine Madneſs, were urging the neceſsity of carrying her to a Hospital- She affrighted, attempted to run down Stairs, but fell and divided the Temporal Artery, from which there iſsued an immense quantity of Blood, from which she perfectly recovered, and never after had any Symptoms of the Disease- There is a Case recorded in the Philosophical Transactions of London, where the loſs of 180. Ounces of Blood, cured the Patient- There is also a Case, related in the Med: Eſsays: Edenburgh: by Doctor Ennis. which yielded to Bloodletting ——

Where it has not been cured, it has in every In-

-stance been mitigated by the Lancet – Doctor Coxe inform'd me, he had seen the Disease much relieved by Bloodletting, in St Thomas's Hospital, London – And had the remedy been persisted in, he thought the Patient would have been cured — All the other remedies, that are necessary for reducing Morbid Action, are to be attended to here – as in other Fevers – except Cold water – which in every form most probably, should, be excluded — A Gentleman from ~~in~~ England, informed me, he cured a Dog of his, under this Disease, by cutting of his Tail, from which a copious discharge of Blood took place – and Doctor Jardin informed me, he cured a Dog of his by cutting of his Ears – the Blood flowed freely —

You are not to be detered from Bleeding, altho' your Patient appear worse after it, for several Bleedings Bleed on Gentlemen —

After sufficient evacuations, Tonics, should be implayed – as Bark, Wine, Opium, nourishing Diet &c and perhaps the Cold Bath —

You see now that Hydrophobia, according to my principle, is a Fever – and I have accordingly given it, the application of the Hydrophobic State of Fever – Disease, Gentlemen, is as much a unit, as the mind and Body of man —

This Disease from other ~~Causes~~ Causes, is to be treated according to the Causes and Effects- remembering always to keep an Eye on the Pulse-

I cannot leave this Subject without earnestly requesting, you will do Homage to the Lancet- "Venerate the Plough," said a celebrated Writer- But I say, Venerate the Lancet, Gentlemen—

Lecture. 12mo. Feby. 14th. 1798

4. Gangrenous State of Fever- I call it a Gangrenous State of Fever, because it is the Effect of violent Stimuli, acting on the System- (vide Vol: 4th.)

Cure- of this I have already treated- Remedies, are Bark, Wine, Opium &ca- To be effectual they should be given in large doses, by mouth, and by Glysters- In this state Medicines have often no Effect internally- Stimuli, however should be attentively used externally- The flower of Mustard and Caustics, should be particularly attended to- There is frequently an insensibility on the Body, and the Excitability is particularly determined to the Stomach and Bowels- Death appears to be on the surface, and travels to the internal Parts, and thereby diſsolves the whole System- In these Cases the most powerful Stimuli should be applied-

Rubbing the Body with Mustard, Arsenic &ca-

Applying boiling water — a hot Iron, or even hot Coals of Fire, should be used — in using them, Gentlemen, I hope you will not meet with so much obliquity and opposition as I have ——

×5. Vide Pag: 57. 57.

6. Bilious State of Fever — Produced by the Action of Marsh Miasmata, which acts particularly on the Biliary System — I refer you Gentlemen to my Publications — All the Bilious Fevers, from the mild Intermittent, to the most Malignant Yellow Fever, are produced from one and the same Cause — The contagious nature of the Bilious Fever, is by no means confined, to the Yellow Fever, for under certain Circumstances even the common Intermittent will be rendered contagious —— That all the different States of Bilious Fever are contagious, I infer, not only from my own Observations, and that of a number of Physicians, through out the United States; but from the Authority of Doctors Cleghorn, Clark, Bianchi &ca — I can conceive that certain Circumstances, would render a Pleurasy contagious — I don't say that it would produce a Pleurasy, but it would excite a Fever —

The Bilious Yellow Fever is by no means an imported Disease — to aſsert ~~as~~ that it is, as the College of Physicians of Philadelphia, is not only absurd, and ridiculous, to the last degree — but it is more, it is highly dangerous — It prevails in every part of the Union, from

Boston to Savannah— I blush, Gentlemen, frequently to think I am a Philadelphian— The remote Causes of the Bilious Fever, act on every part of the System; but have a particular determination to the Stomach and Liver— It affects the Liver— 1. By increasing the Secretion— 2. By producing a morbid Secretion— 3. By destroying Secretion altogether——

The Yellow colour, in the first grade of this disease is frequently owing to an Absorption of Bile— Sometimes to a new Aggregation of the Blood— 'Tis however a fugitive Symptom appearing and reappearing frequently with the Paroxysms—— The worst Cases come on without Pain, or a chilly Fit— For the Black Vomiting, Doctor Wright, Considers Cayene Pepper g^{rs} iv, rolled up in a Piece of Bread, as a certain remedy— Opium has also been recommended— 'tis a most distressing Symptom— After Evacuants, Bark, Wine, and other Stimulants, may be proper——

7. Typhus State of Fever— I have treated fully of the Cure, when treating of the Cure of Fever in general— 'Tis known by Symptoms of direct debility— a weak, low Pulse— It often succeeds the Yellow Fever— and always the Plague— Remember that a Synocha State of Fever, will often take place in an advanced Stage of this Fever— Attend to it Gentlemen and bleed your Patients— (Vide 4th Vol:) it has been

called, unluckily, the Nervous Fever, from Doctor Butters—

×5. Synocha State of Fever.— It attacks with Chills, Pains in the Head, Bones, Sides &c.— includes, Pleurasy— All the remidies formerly laid down, will apply here—

8. Typhoid State of Fever.— 'Tis compounded of Synocha and Typhus— 'Tis the Slow State of Fever of Dr. Butters— It occurs in certain States of Puerperal Fevers &c. It may be prevented by Evacuations— (Vide Vol: 4th.)—

9. Sinocula State of Fever.— Pulse small, tense, and quick &c. it occurs in Rheumatism &c.— Remidies are as certain, as in Synocha— Bleeding moderately, and frequently— Nitre— Purging— Antimony &c.— will certainly answers— (Vide 4th. Vol:)

10. Hectic State of Fever.— differs from the other States, in an irregularity of Paroxysms— It occurs in Gout, Consumption &c. 'Tis hard to cure— The remidies must be varied according to the State of Pulse— (Vide Vol: 4th.)—

11. Inward Fevers— accompanied with a dry Tongue— warm Hands— quick Pulse &c. 'Tis the Febricula of Authors— Patients labouring under it are not so bad, but they can transact their ordinary Buisiness A greater degree of Stimulus would excite a regular intermittent— still greater, a remittent &c.— Remidies are Emetics— Bark, and in some Instances Blisters (Vide 4th. Vol:—

Intermitting State of Fevers – They attack with a Chilly Fit – and appear in the form of Tertian, Quartan and Quotidian – When no Chill appears, 'tis called the Dumb: Ague – They are but one Disease – and from one Cause – Miasmata most frequently produce it – For the reason of the recurrence of the Paroxysms, (vide Pathology) – I then ascribed it to an aſsociation of Ideas and motions ——

To moderate the Paroxysms – there is always great debility in the Stomach – Heat of a Bed should be recommended – warm drinks as Punch, Laudanum, I have found of eſsential Service –

To prevent a return of the Paroxysm; by removing the Debility – There are first, paliative, as

1. Laudanum – a few Hours before the Attack –
2. Strammonium – or Tobacco Leaves, bound round the Ancles or Wrists –
3. Tonics – as Poplar or Willow Bark Allum &c.
4. Spiders Juice, or Webb –
5. Sweating before a Fire –
6. Riding on Horse Back –
7. Terror –
8. Cold Bath
9. Lightning
10. Tourniquet apply'd round the Thighs

it shortens the Fit, and increases the Circulation —

2. Radical — as

1. Bark — This is composed of an Astringent and a Bitter — It should be given in large Doses when the Debility is greatest, that is, just before the Paroxysm — Half an Ounce given at this time, will do more good than two Ounces, given at another time — After the Paroxysms is are removed, you should continue it now and then at particular Periods — The Changes of the Moon, should be attended to, When the Bark fails it should be given combined with Cloves — Wine &ca Arsenic and Zinc have been used — Mercury so as to produce a Salivation, was first used by the late Doctor Bond of this City —

I have had no occasion for a substitute for the Bark, since I have bled more — When the Bark fails, it must be owing to the injudicious manner of exhibiting it — It is either given at improper times — too large, or too small Doses — keep in view the State of the System —

Are Vomits or Purges necessary, to precede the use of the Bark? Where there is a foul Stomach, one or the other will be necessary — A Purge of Calomel & Jalap, will I believe answer all the purposes of an Emetic — When the System is low, Bark may be administerd without either the previous use of an Emetic or Cathartic —

Doctor Claypoole of N. Carolina, informed me, he had seen the Intermitting Fever — alternate with Gonorrhœa — Obstructions are frequently the Consequences of Intermittens — Calomel in Small Doses, will remove them — Purging is improper, on account of the Debility that is generally present —

N.B. an Intermittent was produced from a decayed Tooth — which continued a great length of time — till extracted —

Lecture. 13. Feby 15th 1798.

13. Sweating State of Fever — This occurs in Plague, Mania, Small Pox, Pleurisy &c — The celebrated English Sweating Sickneſs, was nothing more than a Symptom of the Plague — Sweats in all Fevers are the Effects of Morbid Action, concentrated in the Capillary veſsels — You have seen it in a remarkable degree, in Abel Evans, a Maniacal Patient, in the Pennsylvania Hospital —

Cure, must be attempted by

Bloodletting — I have frequently met with it in Yellow Fever — and as frequently removed it by the Lancet — A full, tense and chorded Pulse attend — the Patients, and their Friends will object to your Bleeding, for the reason as they think, because the Sweating is Critical — but it is entirely different from the Critical Sweats in Fevers, as this Sweating State, occurs in the beginning of Fever—

14. Fainting State of Fever— occurs in Yellow Fever &ca Bleeding will remove it— The fainting is by no means here an Objection to Bloodletting— so far from it that it destroys the disposition to Faint—

15. Burning State of Fever— This is either partial or ~~local~~ general— I have most frequently observed it to be partial— The Blood in these Cases, partakes to a great degree of Heat—

Cure— Bloodletting, seldom fails in reducing this Heat, and equably diffusing it through every part of the System— There is something very remarkable in this Heat, as it does not appear always to depend on Action in the Blood veſsels—

16. Cold & Chilly State of Fever— This is partial or general— it occurs frequently in the Hydrophobic State of Fever— In Yellow Fever, I have seen it remain, five or Six Days, while there was the most violent Action in the System—

Cure— It yields, not to the Warm Bath &ca but to Bloodletting— It has been common to forbid the use of the Lancet here, on account of the Coldneſs, being a Symptom of debility; but it is owing to a violently oppreſsed State of the System— Blood should be drawn frequently, and in small Quantities——

II. Those which affect the Arterial System with Local Affection—

These local affections are owing to local debility being induced— this is always attended with increased Excitability— and followed by increased irregular Action——

I. Intestinal States of Fever— This includes 1. Cholera— 2. Dysentary— 3. Diarrhœa— 4. Cholic— They are the Febris Introversa— I have suspected Cholera to be a Fever of the highest grade of the Bilious State, turned in upon the Bowels, and carried of by nature— The Dysentary, I have supposed to be of the same nature— While Diarrhœa is a common Bilious Fever, thrown upon the Intestines— It is not neceſsary that Cholera should be attended, with both Vomiting and Purging— for I have seen most violent Cases of Cholera attended with Purging alone——

Cure— Cholera seldom requires more than a few Drops of Laudanum— I have however seen several Cases, where Bloodletting was neceſsary— and where I have Bled two or three times, with the best Effects—

2. Dysentery- is the offspring of Miasmata and Contagion- it occurs more frequently in high Situations- 'tis remakable, that an Intermittent Fever will prevail in a low Situation, while at the same time a Dysentery will range on high Situations- both evidently owing to the same Cause— The Dysentary prevailing in the high Situation on account of the Cool temperature of the Atmosphere checking the Perspiration, and throwing it in upon the Intestines— It occurs in the Fruit Season, owing to the low vapid Diet of Fruit inducing debility in the Bowels, and thereby exciting Morbid Action— Moderate Quantities of Fruit, good, as it carries off an offensive Bile— This Disease affects Country People, more than Citizens- and Children more than Adults—

The Dysentery has gone off with a Salivation- also with violent Opthalmia and Rheumatism- It always commences with Morbid Action, and a Purge will effectually prevent it in those Seasons or Families where it prevails- This is certainly very important-

This mode of preventing Dysentary is not confined there alone- the same is attended with happy effects in the Yellow Fever- Measles &c^a

Cure- 1. Bloodletting, when the Pulse, Pain

&ca call for it—(which is now more frequently, than formerly) is absolutely neceſsary—

2. Vomits—when sickneſs at stomach attend—

3. Purges—are certainly highly neceſsary Castor or Linseed Oils—Manna &ca are of a soothing linient kind—others of a more powerful kind may sometimes be required—

4. Lime Juice with Common Salt was strongly recommended by Doctor Wright of Jamaica—

5. Glysters—as Flaxseed Teas—Rice Jelly &ca—a few Drops of Laudanum, will be frequently very serviceable—

6. Diluting and Demulcent Drinks—these are absolutely neceſsary—They sheath the Intestines from Acrimony, and supply the place of the Mucus which is abraded from the Bowels—

7. Opiates—these will often be required—

8. Blisters—There is a remarkable connection between the Skin and the Intestines—Blistering has very good Effects—they set up a new Action—which is stronger than the one in the Bowels—

9. Bark—In an advanced Period of this Disease, and particularly if there be intermiſsions, Bark is a valuable & powerful Medicine—

3. Diarrhœa — very often follows Dysentery — It yields to —

1. Gentle Purges of Rheubarb —
2. Vomits of Ipecacuanha —
3. Bloodletting, moderately, in Plethoric habits —
4. Demulcent Drinks —
5. Astringents, as Opium, Kino, Allum &ca
6. Glysters — both of an Astringent and demulcent nature — the following is a valuable Injection for the Diarrhœa — ℞ Pulv: Ipecac: ʒß
Liquid: Laud:
Aq. Fontan M ft.
7. Blisters, to the Arms, Ancles &ca they should be repeated —
8. Salivation, has succeeded in many Cases where every thing else has failed —
9. Warm and Cold Baths — are powerful —
10. Change of Air —
11. Exercise —
12. Diet and Drinks, accommodated to the System —
13. Loaf Sugar, mixed in Brandy —

4. Cholic — 1. The Causes are such as affect the Intestines primarily — 2. 'Tis produced by diseases in Contiguous Parts, as in the Liver — Kidneys &ca 3. 'Tis a disease of the

whole System— When it is a Symptom of general Disease, it is to be treated accordingly—as by—

1. Bloodletting—
2. Purges, of the most lenient kind—
3. Emollient, and Stimulating Injections—
4. Blisters—
5. Salivation—
6. Warm Bath—after depletion, is powerful—
7. Opiates—after inflammation is subdued—

As debility is the predisposing Cause of Cholic—this debility may be prevented or removed by Stimuli—suitably adapted— And an attack of the disease will be effectually prevented—1. When the smallest notice is given of a return of the Disease—give a little Laudanum, from x to xx Drops—2. The Diet should be calculated to give tone to the System in general, and Intestines in particular, it should always be solid—

3. Bitter and Chalybeate Medicines should be administred in the Intervals—4. All the Causes should be avoided, particularly *wet and* Cold Feet—

Lecture 14th Feby 16.mo 1798

2. **Pneumonic State of Fever**— It never occurs, without Fever—'Tis nothing more than a Symptom of an original Fever— The Lungs are affected only in consequence of their being a Portion of the surface of

the Body— It includes an Inflammation of the Pleura as well as of the Lungs—

'Tis produced by an alternation of Heat and Cold— by the Contagions of the Small Pox, Measles, Influenza &ca Miasmata will ~~likewise~~ also produce it— 'Tis sometimes a Symptom of Gout— 'Tis induced sometimes by wounds and Injuries in the Lungs— A decayed Tooth, according to Doctor Faber, has produced it— Debility is the inviting or predisposing Cause— Pneumony is distinguished by particular names, from certain Circumstances—

1. Pneumonia vera— with a Synocha Fever—

2. Pneumonia Notha— It occurs in the Southern States— Pulse is small and soft— 'Tis what I have called an Apoplexy of the Lungs—

3. Pneumonia Typhoides— This is what I have called the Gangrenous State of Pneumony— It is attended frequently with Petechia— prevails in Northern Climates

4. Pneumonicula— 'tis the Consumption, but it is nothing more than a Chronic Pneumony— The Symptoms, as Tubercles &ca are all the Effects of a general disease— 'Tis important, Gentlemen, to take it in the light— for, if taken in time it is as fully under the power of the Physician, as any other Disease—

1. Pneumonia vera- This Disease frequently terminates in an Effusion, into the Lungs- where this takes place to a great degree, it ends, in what is called a Galloping Consumption—

Cure- 1. Bloodletting- Prejudice here, Gent: will not operate against you, as a pain in the Side or Breast is naturally aſsociated with the Lancet— I have always exulted to hear my Patients complain of a Pain, in this Disease, it has never failed to aſsure me of his entire submiſsion to Bloodletting—

The length to which bleeding must be carried, is to be determined entirely by the Judgement of the Physician- There is a Bilious Pleurasy described by Doctor Chalmers of Charlestown S. C. which he was almost universally succeſsful in treating by purging and Sweating- I have seldom, myself, seen more than one Bleeding neceſsary in these Bilious Pleurasys—

The Lancet is the best expectorant in this Disease, it never fails to render the Cough much more easy—

Physicians have in common forbid Bleeding after the 5th Day- 'tis altogether a mistaken notion- I have bled my Patients for the first time, on the 5th 6th 7th and even 8th days- and therby saved my Patients—

Unhappy for mankind, a contrariety of Opinion exists, as to the Quantity neceſsary to be drawn—

The Pulse in the Pneumonia vera will direct us— It sometimes suddenly paſses off, and is translated, to the Brain— you must follow the translation with your Lancet— bleed on— I lately attended a Patient, labouring under the Pneumonia vera— I bled him several times, and he suddenly became Maniacal, from a Translation of the Excitement to the Brain— I bled him again, and he was seized Apoplectic— I bled him again, which was the 12th time— his Apoplexy left him; and he again had all the Symptoms of Pneumony— he perfectly recovered in a short time— Pneumony is sometimes translated to the Joints, producing all the Symptoms of Rheumatism—

2. Purges— as Oil— Calomel &c

3. Glysters— if Bilious Symptoms attend, the Bowels should be opened several times a Day &c

4. Neutral Salts— as Nitre, from ten grains to a Scruple should be given every two, three, or four Hours—

5. Seneka— 'Tis a valuable Medicine— it appears to produce Sweating, without Stimulating but very little— I have called it a Vegitable Antimony—

6. Blisters— they should be applied to some part of the Breast, after Bleeding—

7. Demulcent Drinks— as Barley Water— Flaxseed Tea— Bran Tea— which is made by boiling the Bran, and sweetning the Decoction &c

8. Vapour of Boiling Water – When there is oppression, and difficult Respiration – Vol: Alkali: g.rs j or Mustard Whey answer the same Purpose –

9. Oil – this is a good demulcent, lubricating Medicine in Pneumony –

2. Pneumonia Notha – This appears chiefly in Debilitated Habits – It depends ~~upon~~ on a sudden Effusion of Blood in the Lungs – There is sometimes a little Inflammation in the Lungs – there is seldom a Chilly Fit – there is no heat of the Skin – Pulse is nearly natural – rather softer than usual –

Cure – 1. Bloodletting must be used copiously, and at one time – there is no other remedy – and Death without it, is as sudden, and as certain as from a Cannon Ball – The Cure is as sudden as the Attack – You are directed to Bleed, from the distressing Dyspnœa &ca that attends –

2. Vomits –

3. Blisters – to the Breast, Arms and Legs –

4. Volatile Alkali – is here very useful –

5. Hot Vapour – is highly proper, it must be used –

6. Opium – after Bleeding –

3. Pneumonia Typhoides – or Malig-

nant Pneumony- It runs its course so suddenly, as seldom to require more than one Bleeding—

Cure- 1. Bloodletting-when the Pulse, will admit-

2. Bark and Wine should now be administred freely—

4. Pneumonicula- or Consumption-

'Tis most frequently a Chronic Pneumonya vera- it certainly yields to small and frequent bleedings- I will, without saying any thing more, refer you to my (Med: Inquir: Vol: 2d.)——

Lecture 15th.. Feby. 19th.. 1798-

Pneumonicula- like all other general Diseases, depend upon predisposing Debility—

The forming State of Consumption, may be known by a universal Languor- warm hands- rheumy Eyes in the morning- Pains in the Breast, Sides &ca they universally occur- I speak here of Consumption, without a Disease having preceded it— as Pleurisy &c—

Cure-

1. Exercise-
2. Cold Bath-
3. Bark and Steel-

4. Salted Meats—these are leſs stimulating as they contain leſs Oxygene, and make leſs Blood—

5. Mercury—may be neceſsary—

6. Bloodletting may sometimes be required, tho' rarely—

7. All the Causes inducing debility should be avoided—

Consumption sometimes comes on after a neglected Pneumony or Catarrh—(vide vol: 2^{d}) I will only add—that in the Typhus State, I have lately prescribed the Cold Bath with very great advantage—

In the Inflammatory State—Bleeding should be employed, frequently, in small Quantities, and for a length of time——

The Consequences of Consumption are 1. Haemopteris, which I shall hereafter take notice of—2. Abceſses—3. Ulcers—4. Tubercles—The remedy for the three first, should be Bloodletting or Tonics, according to the State of the Pulse—And by treating Patients in this manner, I am certain, I have seen Cases where Tubercles were removed—I have seen, in one instance, Tubercles spit up—The Lungs are a hardy Viscus—Death must be strongly armed, and the Physician weakly so, if a Patient die speedily from such affections— What would the Effects of Mercury ~~do~~ be in this Typhus State? I know not— I have frequently tried to Salivate my Patients, but never could do it— Also in the Inflammatory kind— Mercury might be serviceable— by creating a new Disease—

Absceſses, Ulcers, Tubercles have all been said to be the Cause of this Disease— It would be equally as wise to attribute the Yellow Fever to the Black Vomiting—

Wounds or even Injuries done to the very substance of the Lungs do not kill— because there is no general debility in these Cases—

Catarrh, may likewise be considered as a Pulmonary State of Fever— You are to feel the Pulse, and adapt your Medicines accordingly— they are the same as directed above—

Angina Pectoris— may also be reckoned a Pulmonary Affection— It is sometimes a Symptomatic Affection of Gout, Consumption &c— The Cure as before—

3. Anginose State of Fever— this includes—

1. Cinanche Tonsillaris— from Cold— The Tonsils sometimes Suppurate—

Cure— 1. Bloodletting—
2. Purging—
3. Blistering— to the Throat—

4. Fumigations - as the hot vapour of water -

5 Low diet -

2. Cynanche maligna - 'Tis not as it has been supposed, highly Putrid - 'Tis on the contrary, highly inflammatory - It is rapid in its progreſs - as gangrenous Symptoms appear, on the second or third day - It may be compared to a Soap Bubble, which soon bursts, and destroys itself - All its Symptoms concur to prove it, an inflammatory Disease -

Cure - 1. Bloodletting - I have used the Lancet with great succeſs, before the Gangrenous Symptoms appeared - but after this, I believe it would be dangerous to bleed - I would now recommend - 2. Bark - It acts here by overcomeing the indirect debility - It may be asked then, why it does not overcome the Gangrenous State of the Yellow Fever - The reason is, because the action of the Yellow Fever, is more powerful, and it falls on the more vital Parts - When the Pulse will not bear bleeding - 3. Vomits should be administred -

4. Mercury - should by no means be neglected -

3. Scarlatina - It has been, and is supposed to depend upon the same Contagion of Cynanche Maligna - 'Tis a matter of no consequence, whether

or not, as to the Cure – for you are to be regulated by the Pulse ——

Cure – 1. Bloodletting –

2. Vomits – are very usefull, the Patient should be puked two or three times a Day – according to Doctor Withering – for there is here, as well as in Cynanche Maligna a preternatural Secretion and Excretion of Bile ——

3. Fumigations – these should be such as stimulate – as the Vapours of Myrrh in Venegar ——

4. Mercury – must be attended to ——

Cinanche Trachealis – This may occur as well from Contagion, as other Causes – It occurs sometimes in Small Pox &ca I saw a true Cynanche Trachealis, produced in Doctor Fowlke from a Translation of Rheumatism – Its chief Cause is Cold – It most frequently affects young Children, tho' I have seen it in Old People ——

There is certainly an inflammation of the Trachea – Dr. Frank who has written on the Disease, has called it Tracheatis – It may be called a Pneumony of the Trachea – I once supposed the effused fluid to be mucous – But I have lately been taught, to believe it, to be Coagulable Lymph – similar to what is effused from any other inflamed Surface ——

It does not militate against the Inflammatory nature of this Disease, if there be no inflammation seen on dissection, in the Trachea, after this Disease—'tis sometimes absorbed— Mercury will sometimes produce an absorption of it—

A Gentleman from Virginia, who had lately had a Pleurisy, was, affected afterwards with all the Symptoms of a strongly marked Cynanche Trachealis— I perfectly cured him, by speedily touching his mouth with Mercury—

Cure— 1. Bloodletting— I allways use this remedy— I once bled a Child three times in one Day, while labouring under this Complaint, and thereby saved its Life—

2. Vomits— they should be given several times a Day— 3. Mercury—

4. Purges—

5. Blisters—

In the Spasmodic Species of Cynanche Trachealis— the warm Bath— Mercury and Cataplasms should be attended to

Lecture 16. Feby. 20th. 1798 ~

4. Rheumatic State of Fever — this divides itself into the Acute and Chronic —

1. Acute Rheumatism arises from the Alternate Action of Heat and Cold — It most frequently affects Soldiers from there active occupation — It affects the Tendons and Muscles — it is nothing different from Gout — any more than the latter frequently falls on the Viscera —

Rheumatism is to Gout, what the Break Bone Fever, is to the Yellow Fever ——

Cure —

1 Bloodletting — particularly Cupping, as there is a particular local determination — Bloodletting should be used in proportion, to the degree of Inflammation —

2. Purging

3. Sweating — this often relieves Rheumatisms, as it is an external Fever — To excite Sweating — Heat, by Bed Clothes &ca is the best mode — Dovers Powders, after bleeding is a Good medicine — Senecka Snake root, is also a very good mode of Sweating ——

4. Low diet

5. Cold — is sometimes useful, as where you wish to destroy the Disease without Sweating this may be effected by Cold Air — the application of Ice, or Cold Water — Analogy, would also lead us to

suppose it very useful— for Foundering in Horses, is in every sense of the word an Inflammatory Rheumatism— tis cured in them by standing a considerable time, in Cold Water——

6. **Frictions**— The Women in Otaheite, cured Captn Cook of a Rheumatism by rubbing his Joints for some time— It acts by bringing on an Action greater than the Disease— This is a true Animal magnetism——

7. **Blisters**— To the affected Parts, after a little Bleeding— If they be objected to, the Application of Cabbage Leaves should be resorted to— they promote a small discharge— in promoting a discharge here by Blisters, we anticipate nature— who always relieves herself by an Effusion——

8. **Molasses and Mercurial Ointment** rubbed on the Parts, I have found of service— The sooner a person exercises and uses ~~he~~ his Limbs, the better——

2. **Rheumaticula or Chronic Rheumatism**, with Inflammation— it is to Acute Rheumatism, what Consumption is to Pneumonia Vera— The

Cure— The remedies are the same as in Acute Rheumatism— attend to the Pulse, and you will have to Bleed frequently— and therby prepare the way, for stimulating Medicines— as——

1. 6

1. Volatile Tincture of Gum: Guiac:
2. Warm Bath
3. Cold Bath
4. Frictions
5. Electricity
6. Change of Climate
7. Salivation —

Beware of Stimulating before you have sufficiently reduced the Pulse —

A swelling in the Lower Extremities, I have found to be a Symptom of Rheumatism — no Pain attends — there is an ingorgement of the Veſsels — Bleed in such Cases, and you will excite Pain, and with it, the Symptoms of Acute Rheumatism —

5. Arthritic State of Fever — Gout is a Disease of the whole System — It is a primary Disease of the Solids only — Chalk Stones — Abceſses &c.ª prove it to be so — It is induced by a general predisposing debility — It affects those most ~~generally~~ frequently of the Sanguinious Temperament — it attacks most generally in the Spring & Faul, when the Change of Weather are favourable to Disease —

It is a hereditary Disease; but it does not depend upon a Transition of Morbific Matter from Parents to Children; but on a Predisposition that is transmitted — It sometimes paſses by Children and affects Grand Children — It affects Females as well as Males — Males are said to be more subject to it, perhaps it would be more proper to say they affect both equally - and that it appears in Females in the form of Hysteria &c - It appears after Puberty - I have seen it in a Gentleman after he was eighty Years old, and in a Child, of only 6 Years old - The most active minds are most subject to it - The Poor People, have it as well as the Wealthy -

Remote Causes - are 1. Passions of the Mind - 2. Ardent - or fermented Liquors - 3. High Living - Spirits are actually necessary to induce Gout - which shall affect the Muscles and Ligaments - The Acid Wines are most apt to induce it - Spirits more apt than it again -

Exciting Causes - are such as induce direct or indirect Debility -

1. Indirectly - as 1. Fatigue - 2. Night Watching - 3. Joy - 4. Terror - 5. Strains - 6. Fever - 7. Hearty Meals - 8. Fit of Drunkeness -

2. Directly - as 1. Innanition from fasting - 2. Purging - 3. Cold - 4. Fear - 5. Last stage of Fever - 6. Excess in Venery & Grief - Gout affects the Feet because they are more distant from the Vital Energies - It attacks at Night, when there is most direct Debility -

Symptoms of Gout are as it affects,

1. Ligaments - in producing Pain - swelling and Inflammation - you will here see its Analogy to Rheumatism - Their Proximate Cause is the same - They differ only in their Remote Causes - Gout sometimes affects the Hip-Joint - Eye Brows - Jaws - &c - Gout differs from Rheumatism in affecting the System with a more general Debility - Rheumatism, like Gout produces Chalk Stones and a Dislocation of Bones - The Gout is Centripetal while Rheumatism is Centrifugal —

2. In the Arterial System - It is discovered in the Pulse The Gout more frequently affects the Joints in the Spring and Fall - Bark is poison in this Disease, where it affects the Arteries - Gout sometimes appears in the form of an Intermittent, and sometimes in the form of a true Hectic Fever - Sometimes it appears on the full and change of the Moon —

3. In the Nervous and Arterial Systems, jointly producing Vertigo - Apoplexy - Palsy - Histeria &c —

4. In the Muscles - producing Pain and Spasmodic Affections - There is a sudden shooting Pain which sometimes paſsing thro' different parts, in Gouty People, and is gone in an Instant - It affects, like the Electric Spark - I have called it the Aura Arthritica - Gout affects, sometimes the Muscles of the Legs &c —

5. In Tendons, produces Violence—rending and tearing them to pieces—

6. In Cartilages—I have seen it affect the Cartilages of the Ears, with violent Soreness and Pain—

7. In the different Viscera—in the Brain, producing Apoplexy &c in the Lungs, producing Pneumony—Consumption—Asthma—Angina Pectoris—and a little short Cough &c—In the Throat, producing Angina &c in the Kidneys—producing Inflammation—Diabetes—Calculi and Strangury, from an Engorgement of the Bloodvessels—in the Bowels—producing inflammation—Dyspepsia—Cholic—Hæmorrhois—Dysentary and Diarrhœa—called in Virginia the "Downward Consumption"—The Liver suffers much from Gout—producing an increased flow of Bile—Calculi &c—these last Symptoms appear most frequently in Females and in the Southern States—The Stomach—producing Nausea—vomiting of a Black Matter &c—

8. In the Glandular and Lymphatic Systems producing Salivation—Buboes—swelled Breasts—each of which I have seen—producing also Scrofular Swellings of the lower Extremities and Dropsy—I have seen it produce a flow of mucus, or a Catarrh from the Urethra—and Pains in the parts of Generation—Priapism is sometimes a Symptom

9. In the Skin, producing Petechia—Ulcers—

mortification- Eruptions on the Face- and Erysipilas

10. In the Bones- twisting and dislocating them, probably from the formation of Chalk Stones- I once saw an instance, where the Teeth were rooted from there Sockets—

The Bloodvessels, Nerves, Lymphatics &ca- are affected, according as the Patient is of the Sanguineous- Plegmatic or nervous Temperaments-

Chalk Stones are founded in the Eye Lids- Ears- I have seen them spit from the Lungs &ca-
These effusions most frequently take place in the Kidneys- they are ~~taken~~ take notice, Gentlemen, always preceded by Inflammation- Effusion of Blood and Serum often take place—

Gout, is the same whether its affects the Brain Bowels- Lungs- Joints &ca— 'tis still the same Disease- I have said there are no half truths in Government- 'tis equally true, there are no half truths in Medicine— 'Tis the same, let its Cause be what it may- 'Tis a Malignant Fever of a Chronic kind- 'tis to a Malignant Fever, what Pneumanicula is to a Pneumony- You will readily see now, the absurdity of Doctor Cullen's different kinds of Gout—

The Gout is a Monarch, which invades every part of the Body– the whole System crouches before it– 'tis unlimited in its Empire —

Lecture. 17.mo Feby. 23.d 1798 –

Cure– Be not startled, Gentlemen, when I talk of curing the Gout– for it is curable– as much so as an Intermittent Fever– I have cured it often, and I hope I shall teach you ~~how~~ to do the same– Let not superstition say here, that we bring upon our Heads the vengeance of Heaven– in attempting to cure it– for heaven has not taken that method of punishing Intemperance– for Lues Venerea, which is by far the most sinful, she has kindly interposed, and sent us a sovereign Remedy—

'Tis not more necessary in the Gout, to induce an attack ~~of~~ of it in the Feet– than to bring on an Abscess to cure an Inflammation —

In curing the Gout, we are naturally led to consider– 1. The Method of preventing an Attack ~~of it in the Feet~~ The premonitary Symptoms are Languor &c.a and others nearly similar to those of Fever in general– and may easy be removed by Pediluvium– wine Whey &c.a– but these remedies will be altogether improper, after the formation of the Attack —

These Symptoms all disappear when the Gout attacks the Extremities—

2. The method of curing, when the Fit has taken place and there exists violent Morbid Action— is—

1. Bloodletting-
2. Purging-
3. Vomiting-
4. Nitre-
5. Abstinence-
6. Cool Air &Ca

Startle not Gentlemen, when I mention Bloodletting as a Remedy in Gout— I have bled often, and always with the best Effects— I am not singular in my Practice— Doctor Sydenham and Dr. Luster bled in this Disease before me— Bleeding has travelled up Hill, in Fevers, as well as in Gout, for many Years— It has been, by Doctor Cullen condemned as highly improper in all diseases from Contagion— Experience however has proven the inflammatory Nature of those Diseases, and the real Utility of Bloodletting

Is not debility the predisposing Cause of this Disease and will ~~not~~ bleeding increase this debility? By no means— all other inflammatory diseases are preceeded by debility— and yet how useful, how actually necessary do we find Bloodletting— But will not Bloodletting dispose to returns of the Gout? It will not— any more than bleeding in Pleurasy will dispose to future Attacks— Bleeding is more loudly called for, in Gout, than in Pleurasy, for it falls with violence on more vital Parts— It is I believe more frequently the Cause of Calculi when it attacks the Kidneys, than is generally suspected— Banish then Gentlemen all your former Prejudices on the Gout— 'tis not a sacred Disease—and there is no sin, in handling it thus freely— I have long been in the habit of ranking it, among the most simple and curable Diseases, and it certainly is so— There is no Disease which predominates more over human Reason than this—

Gout—has been supposed to be only inflammatory when it attacks the Extremities—and that when it attacks the Viscera, it is Atonic Gout— 'Tis no such thing—Physicians, stimulate when the Gout attacks the Viscera to drive it to the Feet—this is by no means necessary— Bloodletting will do the same— The Pulse ~~are~~ will always inform you, what you are to do—You will frequently discover the depressed Pulse, as much so as in any malignant Fever—Bleed, and you will raise— Every circumstance which can justify Bloodletting in the Yellow Fever, when it attacks the Viscera— will equally justify it here—— The Wandering or misplaced Gout is frequently carried to the Feet by a single Bleeding— I have bled, to remove the Hectic Fever which sometimes attends Gout—and to prevent its recurrence, with the best Effects——

Remember Gentlemen, it is proper to bleed in Gout, let it attack whatever part it may—for it is still the same Inflammatory Disease— The good Effects of

Bloodletting here are— 1. It removes Pain— 2. Prevents Effusions— 3. It removes a Paroxysm— There will I hope be a time, when it will be as disgraceful, to let these Effusions take place in Gout, as it now is, to let a Malignant Fever become, what is called Putrid—

The next Remedy mentioned, is—

2. Purging— Sulphur is generally prefered for this Purpose— it is supposed to have a Specific action— Other Laxitives however, I conceive may be used as equally as well ——

3. Vomits— are useful, when there is only a moderate Action— Dr. May says they are only servisable by removing an Acid from the Stomach— They act by taking down Inflammatory Action, and diffusing it equally thro' every part of the System—

They should not be used, when there is a Local determination to the Stomach or Head—

4. Nitre— Should always be given, except, when the Stomach be affected—

5. Cold Air— the Limb should be kept out of the Bed Clothes— Cold Water may sometimes be applied— Flannels should be avoided— Remember, I recommend Cold Air and Water, only when there is violent Morbid Action— Nothing can be more rational ——

6. Diluting Liquids— so as to bring on a

moderate Diaphoresis— 7. Abstinence from Wines—Spirits—hearty meals &Ca— 8. Blisters—They are valuable—they are like, and as effectual, as the Caustic or Knife, to those Tumors, called "Noli me tangere," which from neglect become incurable Cancers— They should be applied to, or near the affected Parts— The late Dr. Chalmers, first informed me of their good Effects—they never do harm—they always as certainly afford relief— as they do in Pleurasy—

Is sweating, proper in Gout? No—where Bloodletting can be used—

Is Opium proper during a fit of Gout? No—it is not—except after the use of the Lancet—

Are any other local Applications, except Blisters—servicable? When Blisters are objected to, I have applied Cabbage Leaves and Molasses, with advantage—Stimulating Linaments should be avoided— 9. Caustics—may be used, when there is violent morbid Action——

Method to be pursued, in an Attack of what is called Atonic Gout—This state of Gout is the consequence of too little Bleeding, or neglect of it, in the Inflammatory Gout— The Atonic Gout—however frequently, like Typhus, comes on with Symptoms of Debility — It follows the wearing down of the Tonic Gout — But attend to the Pulse — when it is languid and weak, Stimulants should be used —

Cure — 1. Opium — given 1. in Small Doses — and then gradually increased —

2. Spiced Wines, unless an Acid prevails, then,

3. Porter — is preferable — if this fails —

4. Ardent Spirits — first given diluted and hot — Dr. Warner recommends the following receipt, and it is very well adapted —

5. ℞ Reasons, bruised ℔ß
Senna: . . ℥j
Coriander & Fennel Seeds ā ʒj
Rheubarb: ʒj Infus: in Spt: Gallic: Oiij
Cola — at capt: Cochlear: magn: 4 Hor: c̄ L. Laudanum —

6. Æther — is very good — when you wish an immediate Action —

7. Volatile Alkali — from five to ten Grains —

8. Oil of Amber — is of great service when Spasms or Convulsions appear —

9. Opium Glysters — when the Bowels or Stomach are affected —

10. Frictions — with volatile Linament, to the Abdomen &c —

11. Blisters —

12. Cataplasms — to the feet, on the upper part —

13. Warm Bath — and last of All

14. A Salivation —

Means of Preventing an Attack of Inflammatory Gout— It occurs mostly in the Sanguinious Temperament, and under the 45th Year—

Remember, I dont believe the Seeds of the Gout, existing in the Body, after an Attack, any more than the Seeds of the Pleurasy exists after an attack of it— There exists nothing more than a predisposition to the Remote and Exciting Causes—

1. Temperance—in a total abstinence from Spirits, Wine, and Animal Food—Attention to this has certainly eradicated it from the System—

When it occurs seldom a meal of Fish, may now and then be allowed—he may be indulged a little in White meats—and a little Wine and Water

2. Moderate Exercise—It acts by giving Tone to the System—it should be moderate, otherwise it will dispose to an Attack—Agriculture and Walking are preferable when used moderately, Riding is, not good, because its Action is only partial, in not exercising the lower Extremities—

3. General, steady Warmth should be attended to—Woolen or Cotten should be worn next the Skin—Cold, particularly combined with Moisture should be avoided—

4. Moderate Exercise of the Passions and Un-

-derstanding— Political Controversies should be particularly avoided— The understanding should be engaged on pleasing Subjects— Patients should avoid the midnight Lamp, by going to Bed early—

5. Venereal Appetite— may be moderately indulged— 6. Costiveneſs, should be removed by powdered Brimstone— 'tis preferable to others, as it has likewise an Action on the Skin—

A man who is subject to Gout, should treat his Body, as if it were composed of Glaſs—

There appears, Gentlemen, something like Indian Devil Workship, among Physicians, in preventing the Gout— none think it folly to endeavour to prevent other Diseases; but all bow before the Gout—

7. Iſsues— are sometimes serviceable—

Are Bitters proper, in preventing an attack of Inflammatory ~~Attack~~ Gout? No, The Duke of Portlands Powder destroyed nearly all who took of it—

Means of preventing Atonic Gout— are—

1. Generous Diet
2. Sound Old Wine
3. Frequent Meals
4. Salted Food
5. Calybiates

6. Bitters- in moderate Quantities-
7. Volatile Tincture of Gum Guiaicum-
8. Garlic-
9. Warmth applied generally-
10. Warm Bath- and sometimes the
11. Cold Bath-
12. Exercise, in Journeys best-
13. Frictions-
14. Laxitives- Sulphur should not be used- Rheubarb with Orrange [illegible] Peel, infused in Wine, is well calculated for the Purpose-
15. Passions and Understanding should be moderately Exercised-

Skill in Physic, depends upon the mode of properly timing remedies- for there is a time to Bleed and a time not to Bleed, there is a time to Stimulate, and a time to Purge, and a time to Vomit &ca-

Lecture. 18th. Feby. 26th. 1798-

Maniacal State of Fever- I enter on this Subject Gentlemen with uncommon pleasure- for I hope to make its proximate Cause the same, and its nature as simple as any other State of Fever- I was once led to suppose its Seat to be in the mind, and considered as a "noli me tangere"- Doctor Cullen taught me to place its seat in the nerves; but from my very bad succeſs in treating it, I lately abandoned it, and now consider it as entirely seated in the Bloodveſsels — It is precisely similar to the most common Inflammations — These Patients who labour under this Disease, you will always find by inquiry, first complained of a Pain in ~~his~~ their Forehead — there is a full, quick, frequent or tense Pulse in Madneſs — I scarcely ever met with ~~any~~ an exception to this — wakefulneſs is a sign of Fever, this we know occurs in Madneſs — The White Tongue which always occurs in Inflammatory Fevers, occurs here — Blood drawn shews high inflammatory Action — sometimes sizy; but more frequently puts on marks of a higher degree of Inflammation —

I infer it to be seated in the Bloodveſsels from its Causes — It occurs at those Seasons, and times of Life when other Fevers are most frequent — It occurs in the Brute Creation, and they can be supposed to have but little Brain — The Cure is the same as in other Fevers — I infer it also, from its alternation with other Diseases of an Inflammatory kind — as Rheumatism, Consumption &cª Puerperal Fever &cª — also from the same States of Pulse occurring here as in other Fevers — I infer its being seated in the Bloodveſsels likewise, from a temporary suspension, from its being produced by compreſsing the Carotids &cª — also from no marks of Inflammation being seen on diſsection, when it has been cured by a Translation — From remiſsions taking Place, as in other Fevers — From Sweats occurring similar to those of other Fevers — From terminations similar to other Inflammations, as Rigidity — Effusions of Water — Pus &ca being found after Death — That there are Cases, after Death, which on diſsection discover no marks of Inflammation, we will readily admit; because we know Morbid Action is often so violent as to go beyond Inflammation — It appears therefore that Mania is a true Inflammation of the Brain — 'tis in fact a Chronic Phrenitis — it is to Phrenitis, what Pneumony is to Pneumonicula — Diseased Livers with its Morbid Secretions are very often found in this Disease — hence the Ancients absurdly supposed it to be the Seat of the Disease — 'Tis owing to the Action of a general Fever —

I conclude then, that there can be no Mania without an Inflammation of the Brain —

I consider derangement as a departure from the natural order of things — Mistaken perception, is the highest grade of this Disease — False Judgement with just perception is a lower degree — There is a derangement of the Will — Memory &ca Derangement is likewise, sometimes seated in the moral Faculties — and in the Paſsions — All these different Grades depend on Morbid Action, in the Brain — There is in some Cases, a total abstraction of all these Faculties called Fatuity or Idiotism — You will now Gentlemen see how neceſsary it was for me to treat profeſsedly on the Faculties of the Mind in our Physiological Lectures —

Remote Causes — are such as act by inducing — 1. Direct Debility in the Bloodveſsels of the Brain — 2. Indirectly — are such as induce debility through the medium of the Brain and Nerves — Intense thought often induces derangement in the Understanding, as Theological, Metaphysical, Arethmetical &Ca — Love, Grief, Gaming — Debt — Loſses — Intemperance, and numberleſs other Causes concur in producing this Disease — In the time of Revolutions — diseases of the Brain are much more frequent — Apoplexy was once Epidemic in Rome, from this Cause — the turbulent State of France within these ten years, has produced frequent Instances of this Disease — In the times of Speculations, this Complaint very frequently takes place —

In the Eastern Countrys, derangement is scarcely known but fatuity is very frequent — The mind, here, dies as it where from the abstraction of stimuli —

Mania most frequently affects the Sanguineous Temperaments — It seldom occurs under Puberty — here the predominance of Irritability over sensibility protects such from the Disease — Old People are unapt to have it — Between the 20th and 45th Year, it most frequently occurs — this shews its near connection with the Bloodvessels— The moon has a particular influence on this Disease— hence the Term Lunary— The different States of Derangement which induce Mania appear in the form of — 1.—

1. Hypochondriasis— this is produced from repelled Eruptions, retained Menses &c— The first Symptoms generally appear in the Stomach, producing Heart Burn, Dyspepsia &c— in the Bowels, producing, Colic, Flatulency, Diarrhœa &c— from hence after remaining sometime, travels slowly to the Brain, producing moderate vibrations, and the Patient considers himself as Dying or even Dead, and a thousand other Inconsistencies —

Lecture. 19th Feby. 27th. 1798—

Hysteria resembles Hypochondriasis, in almost every respect— it differs from it in degree— Hypochondriasis being the most violent State— The treatment also differs— Dyspepsia is the State which appears to connect these two Diseases together—

— Cure— Hypochondriasis is cured by such Remedies as act 1. Directly on the Body— as—

1. Warm Bath.

2. Warm Drinks— as Coffee and Tea, which appear to be very proper— Cold Drinks are

very improper - as the first Symptom of this Disease is frequently a Coldneſs at the Stomach—

3. Opium - this divine Medicine, is the principle Consolation to Hypochondriac Patients - hence called Medecina Mentis—

4. Ardent Spirits - have been resorted to by the Patients for relief - but here the remedy is worse than the Disease—

5. Music - of the chearful kind—

6. Salivation - should by all means be tried - after other attempts hath failed - It translates morbid Excitement, from the Stomach, Bowels, Head &ca ~~Head~~ (so often the Seats of this Disease) to the Mouth—

7. Exercise—

8. If connected with the repulsion of Eruptions, they should be restored—

9. Cold Bath - after some degree of Excitement has been restored to the System, by the previous Use of the Warm Bath—

Is Bloodletting ever proper or useful in this Disease? I answer, not often - but when it is, you can readily discover from the Pulse—

Dyspepsia - which is so often a troublesome Symptom in this Disease, should never be neglected - you should remedy it, by the use of Magnesia - Bitters - Alkaline Salts - Animal Diet &ca — but of this I shall be more more particular in another place—

2. Those which act Indirectly on the Body through the Medium of the Mind—

The Patient fancies himself labouring under every Disease in the Nosology— He entertains a false Judgement in his Physician; hence he ~~rund~~ runs the whole round of Physicians in the Neighbourhood— still putting unlimited Confidence in the last— He will sometimes fancy himself dead— or transferred into Dogs— Catts &ca—

Hysteria— is the mildest diseased State of the Mind— it however always leads to Hypochondriasis— Despair is a frequent Symptom of Hypochondriasis— hence these resorts to a Knife— a Halter— a Razor &ca— Considering the dreadful nature of this Complaint, we should by no means treat our Patients disease, as immaginary, but real— 1. The Physician should always be grave in his presence, and listen to him attentively, while relating his various Symptoms— You should beware of treating his Complaint, as lightly, or dropping a single word of that Effect, among his Friends or Acquaintances— 2. Amusements of every kind, which will engage, without fatiguing the Body or Mind— should be carefully attended to— Man was made to be active—

3. The sudden Excitement of some of the active Paſsions- there is an Instance of a man, who labouring under the Disease, fancied himself Dead, and was shrouded- he gave directions that the Bell should ~~be tolled~~ tole his departed Soul— The Bell man knowing his situation, instead of giving it the usual Solemn Tone, gave it quick, lively Strokes- the Sick Man, quite enraged, jumped up, tore of his Shroud, ran out, kicked the Bell man down Stairs, and gravely tolled his own departure— The Paſsion of Anger, that was here excited, perfectly cured this Patient— 4. If Debt be the Cause, we may be sure, he is an innocent and honest Man, for no dishonest Man ever became Hypochondriacal or troubled, from contracting Debts- we should therefore in these Cases advise them to avail themselves of the Laws of our Country in such Cases- I have by this means, I am certain seen many miserable Persons, perfectly restored and rendered useful and valuable Citizens— 5. If it arise from Love, advise Absence- or binam Amicam- I.E. a second Mistreſs— 6. If from Grief, advise a conversation with pious Clergyman—

7. The production of a new Aſsociation of Ideas- Change your Patients Room- his Dreſs- his Company &c

8. Matrimony- when ~~practable~~ practicable should be resorted to- The Substantial Pursuits of this

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State of Life, prevents the Action of the Exciting Causes— 9. Journeys to warmer Climates— This destroys the old morbid Association of Ideas, by presenting new Objects &c— A new Companion should accompany him—

10. Direct your Patients that when they are solitary not to be idle, and when they are idle, not to be solitary—

2. Melancholy— or Insania Partialis— I define it to be a False Perception of things, ~~which are true~~ or a false judgement of the relation of things which are true— There are various kinds of lesser degrees of Mania as the Democratic mania— The Aristochratic mania— the Virtuous mania— The Love mania— The Eclesiastic mania— The Arethmetical mania— &c &c— Distress appears to be the Connecting Symptom, between Melancholy and Madness— this grade is very comman— The Alchemists, the Enthusiasts in Religion &c have all afforded Instances of it— Dyspeptic Symptoms leave the Patient here——

Lecture 20th. Feby. 28th. 1798.

The Predisposing Cause of Madness is Debility— which is either Direct ~~and~~ or indirect— This Debility invites to violent morbid Action— The Acute

Inflammatory Madneſs. I will call Tonic Madneſs – The one with but moderate Action, Atonic Madneſs –

The Premonitory Symptoms of Tonic Madneſs – are Watchfulneſs – Instability in every Persuit – Irascibility – Costiveneſs &Cª &Cª &Cª –

The Precursors of Atonic Madneſs – are all the different Symptoms of Hypochondriasis – Chillineſs – Steady in his different Persuits &Cª &Cª – These two States are different from each other only in degree –

To remove the Premonitary Symptoms of Tonic Madneſs – The Patient should be removed from his Persuits – he should be reduced by Exercise, Purging &Cª –

The Atonic Madneſs – may be prevented by exciting pleasant Emotions – new objects – new Society – Exercise – Journeys – Stimulating Diets and Drinks &Cª should always be employed –

Symptoms of Tonic Madneſs – are Fierceneſs – Irascibility – unusual Appetite – a full tense, and sometimes a quick Pulse – Insensibility to Cold, and different Medicines – Costiveneſs – they rent their Clothes, and wound their Bodies – 'tis probable they wound their Bodies to excite Pain and thereby remove their Mental Sufferings – they fly from their Friends and from Society – Shakespear gives us the best description of both States of Mania in his Tragedy of King Lear – &Cª

These Symptoms most frequently terminate in Atonic Mania –

however, altho' I have called Mania, a chronic Phrenitis, yet there are, and I have seen several Cases, where it ended in Death in a few Days, from disorganization, as in other Cases of Inflammation —

Symptoms of Atonic Madness, are great Taciturnity - down cast Eyes - a languid slow, or quick and weak Pulse - Obstruction of all the Secretions - dry Skin &Ca these are the Symptoms which occur during Confinement; but when at Liberty, they seek Society &Ca —

The Atonic Madness frequently affects all the Faculties of the Mind; but more frequently it affects the Understandings - sometimes the Moral Faculties - while at other times they are unimpaired - Atonic Mania, when moderate, will continue for 20 and 30 Years, ending in complete Fatuity - sometimes in Epilepsy - They possess an Equanimity of Temper —

Cure of Tonic Mania —

1. The Patient should be removed from his Family and Friends, to a place of Confinement - and if much enraged the Mad Shirt should be resorted to - great delicacy should be attended to in Conversation, as well as every other respect —

2. Bloodletting - is a speedy remedy - it soon pro-

-duces Composure - it must be repeated while ever there a is any Morbid Action in the Pulse - from 20 to 200. Ounces of Blood may be advantagiously drawn in this Disease — It generally supercedes the neceſsity of using the Mad Shirt - I have called Bloodletting my Anodyne in Malignant Fevers - it is my Mad Shirt, in Mania - Topical Bleeding may be used, as there is Local Affection —

3. Vomits - they debilitate the whole System - to be of Service they should be frequently repeated —

4. Purging - is highly proper - it should be repeated two or three times a Week —

5. Blisters - should always be used - Doctor Willis prefers them to the Ancles and wrists, instead of to the Neck and Head — Doctor Parry in England, has been famous for curing Mania, by compreſsing the Carotid Arterys —

6. Cold Air and Water - the Water must be applyed till the Excitement is much reduced - as by immersion — The Clay Cap to the Head shaved as recommended by Cullen - and the Application of Snow and Ice, should not be neglected when the general Application of Water was objected to —

7. A Salivation - this not only abstracts Excitement from the Brain by exciting a new Action

in the mouth, but it abstracts it by depletion—

8. Low Diet—as milk and Vegetables &ca

9. Supplanting or removing the ruling Paſsion of our Patients—nothing can be done without this—I believe as much in a Table of the Affinity of Paſsions with one another, as I do in a Table of Chemical Attractions—

10. Music—has been recommended—If it has ever done harm—It must have been from an Ignorance how to apply it properly—A Plaintive Tune could not but have been of service to a Tonic Mania—

11. Darkneſs—is sometimes neceſsary—

12. Solitude—The visits of Friends, Acquaintances or Strangers, should be as much avoided as poſsable—There are times when even Physicians and Nurses, are to go but seldom—they frequently excite into Action a new Paſsion, which cannot fail of making him worse—

13. Patients should be opposed, as little as poſsable in any thing—Above all the Physician should do nothing that will excite Anger—he should not bleed his Patients himself, nor let him hear him prescribe Bloodletting—

14. Cleanlineſs—should be attended to—

15. Exercise—in a Carriage, and Company—

16. Cold Bath - should be employed - The Shower Bath is the most preferable mode —

17. Amusements - They should be used constantly and in succeſsion —

Is Opium proper in Tonic Madneſs? No -

Are any other Medicines neceſsary? I know of but few - Hellibore and Borax have done good only when they have excited Purging - Camphor has acquired some reputation - given in the quantity of from ʒj to ʒij in the Day it is said to leſsen the Pulse considerably - Digitalis - has been of service - Doctor Withering speaks of it, in highest Terms — Coercion was used succeſsfully by Dr Willis in the Case of the present King of England - It should only be used after every other Remidy has failed - It acts in consequence of the Fear it induces - The late Doctor Gregory used to mention a remedy used by a Farmer near Aberdein in Scotland; which was, to yoke a number of madmen together like Horses, and make them Plough the Fields - It acts only by wearing down the Excitement of the System - tis a cruel Remidy —

This Disease, Gentlemen, is as much under the power of Medicine, if treated properly as even a Pleurasy or a Common Intermittent ———

Lecture. 21st. March 1st 1798 —

The Remedies for Atonic Madneſs — are —

1. Warm Bath — as there is much Torpor in the System, it must be used many Weeks attentively. after which the Cold Bath may be advantagiously employed —

2. Wine and Ardent Spirits — When this State of Madneſs ~~[illegible]~~ is brought on by Intemperance, these are the best Remedies —

3. Opium — is a useful Medicine — Doctor Anthony Fothergill prefers the use of Henbane, in this Disease, on account of its not inducing Costiveneſs —

4. Blisters and Caustics, to the Neck — I am disposed to believe Caustics a valuable Remedy, they act by exciting a new Action —

5. I mentioned Doctor Parry's ~~[illegible]~~ having used compreſsing the Carotids, in Tonic Mania — What would be the Effects of Compreſsing the Jugular Veins in Atonic Mania? — Few Maniacs die without being restored to Reason — few Men die without a Fever —

6. Paſsions might be excited in this State of Mania with good Effects —

7. Music – This should be of the chearful kind –

8. Exercise – should be used in order to ensure succeſs – in the form of walking – riding on Horse Back – or in Carriages – Cleanlineſs and neatneſs should be strictly observed –

9. Salivation – has been found very useful in Atonic Mania –

10. Bartholine speaks of the good Effect of Stripes in this Disease – It acts not only by irritating the Skin, but by exciting Anger –

It has been said that Madneſs when cured, is apt to return – so is Pleurasy – but we don't on this Account depreciate the use of the Lancet in this Disease – It may be easily avoided – Constant agreeable Employments should by all means be procured –

Doctor Willis and Doctor Addington of England, have acquired much reputation in curing this Disease – they take ~~these~~ the Patients into their Houses – and by having them under their immediate direction – they accommodate their Remidies to the States of the System – Permit me, Gentlemen, to recommend to you, similar acts of Philanthropy – By all means aſsert Madneſs to be a curable Disease – by so doing the Patients Friends will seek aſsistance much more early –

In aſserting Mania to be a curable Disease, I don't say it is always so, for after it has continued many Years, we are often unable to do any thing — we should not however neglect such Patients — for by the long continued use of Tonics — I have had the pleasure of seeing several desperate Cases of Mania removed —

I have said Moral Evil was the Effect of Debility in the Moral Faculty — this has been happily remidied, in the new Jail of this City — Let not Medical Science be behind hand —

Prognosis — 1. Madness when hereditary has been said to be incurable — 'tis not so — I have cured several such Cases ~~[illegible]~~ myself — Madness from Fevers — Parturition, Drunkeness or ~~Passions~~ Poisons — readily yield to Medicine — 3. Madness from Emotions is less difficult to cure than from Passions — 4. A return of any Ancient habit is always a favourable occurrence — 5. Symptoms of Hippochondriasis are always favourable, as Madness like many other Diseases, goes off with the same Symptoms it commences — 6. A Pain in the Head occurring will give you just reason to prognosticate a favourable Issue — 7. A return of habitual Diseases — a running or picking at the Nose — moist Skin — regular Stools — the breaking out of an old Ulcer, or the formation of an Abscess in any part of the Body, are all favourable Symptoms — A Diarrhœa is sometimes favourable — An Acute Fever appearing after the Patient has been sometime it with Mania, is favourable — it excites a general Action in the Bloodveſsels ———

Intermiſsions or Remiſsions of Madneſs, are favourable — Treating Friends and Acquaintances with Mildneſs and Affection is always a favourable Occurrence — Diarrhœa is most commonly an unfavourable Symptom Convulsions are very unfavourable ———

Weakneſs and Defect of Memory are owing to — Intemperance in Eating and Drinking — Exceſs in Venery — Lesions of the Brain — Chronic Fevers — A Translation of Gout to the Brain — Apoplexy — Palsy — Epilepsy — the inordinate use of Snuff — Terror — Oppreſsing the Memory with too many words — Many Peoples Memory are rendered defective, from having Learning &ca imposed upon them unaccomodated to the Strength of their Brains in early Life ———

Remidies — are to avoid all the Causes we have mentioned — frequently repeating different Sentences &ca Memory is aſsisted by calling in two or more of our Senses — as for Instance we remember better when we both see and hear &ca Memory is much influenced by the principle of Aſsociation — tis aſsisted by our placing ourselves in the same situations, where we heard, or that of a Circumstance — tis aſsisted by an aſsociation of Sounds — Memory is aſsisted by an Aſsociation of Words and by Letters — for a further knowledge on this Subject, Gentlemen, I will beg leave to refer you to Locke, Reede, and Beattie —

Memory is much aſsisted by frequently exercising it — Memorandum Books should not be used in early Life — These are the moral remedies — The Physical Remedies, are — if there be too much morbid Action, Depletion — If there be a deficiency of *Action, Tonics* —

Lecture. 22^{d}. March 2do. 1798 —

Fatuity or *Idiotism* — I define to be a total deprivation of Understanding and Memory — Its proximate Cause is an entire absence of Action in those Parts of the Brain which are the seats of the Faculties — 'Tis sometimes congenial, and when it is, it is most frequently derived from the Mother — It is induced by Falls, Intemperance — Lesions of the Brain &c^{a} — It is induced by old Age, for it is a melancholy truth, we are once Men, and twice Children —

You will perhaps smile, Gentlemen, when I speak of curing *Fatuity* — But recollect that time has cured it by the Operations of Nature — Doctor Hunter of York in England relates such a Case — The Attack of an Acute Disease sometimes, perfectly cures Fatuity — It awakens the Mind into Action — It has been cured by a Fall and by a Burn —

These are important Facts as they shew the Connection between Sensation and the Brain— Connected with these Remidies are the Medicines under the Head of Tonics—as Chalybeates—Bark—Cold and Warm Baths &ca Low diet—

Are there any Medicines which produce a Specific Action on the Brain? Stramonium has the Effect, and might be administred with Advantage— What would be the Effects of repeated Fitts of Intoxication—

Fatuity—from Fever, is readily cured—it is generally releaved here in a short Time without any remedy— But should Nature not remedy it—the Cold Bath, will spedily Effect a Cure—

Fatuity—from Old Age cannot be cured, but it may be prevented, by constantly exercising the Mind on various Subjects— Fatuity—is more rare in Cities than Countrees, as Company and Exercise of every kind may be had much more readily— The Moral Faculty is much more vigorous in Old Age, than at any other time of Life—this among others might be employed as an Argument in Favour of the different Faculties possessing different Portions of the Brain—

Diseases of the Moral Faculty—For their Symptoms and Causes, I beg leave to refer you to Vol: 2d of my Med: Inqs and Observations— When I delivered that Oration, it was treated with ridicule by the Phylosphers and Citizens of Philadelphia— I have however lived to see its Adoption by the Legislature of Pennsylvania - in the new Jail of this City, where Science and Reason go hand in hand -

Diseases of the Passions - The Passions are most frequently affected with an Excess of Action - sometimes however there is a deficiency of Action - in this last Case Tonics should be employed - Pain being excited, might probably be attended with good Effects - Where there is inordinate Action, as in the former instance - they are to be treated according to the State of the System - In the following order - 1. Love - 2. Grief - 3. Anger - The Passions are nearly as contagious as the Small Pox or Measles -

1. Love - the excess of it only, constitutes Disease it discovers itself in an aptitude to blush, frequent sighing &c. - If a woman retire to decorate herself from the presence of a Gentleman, you may be sure she loves him - It is equally a sign she loves him, if she is never, or always looking at him - After the formation of this Passion, the object beloved, is never the subject of a Dream - neither can the Lover in the absence bring to his recollection, a single Feature of her Face -

Cure - When there is much sighing - restlessness and Fever, you should have recourse to Bloodletting and Blistering - Ovid advises what he calls "Binam Amicam" for as Fire expels Fire, and Pity, Pity, so Love expels Love— Ovid also advises the Lover to think much of his Mistreſs's bad Qualities— if she has a bad voice, get her to sing by all means &c and do any thing to expose her— Avoid the Company of the Lady— Take a Voyage or a long Journey— Hope should be entirely destroyed—

Love may also be cured by exciting a stronger Paſsion, as Ambition and Resentment &c——

2. Grief— our Profeſsion often gives us an Opportunity of witneſsing this Paſsion— It is implanted for useful purposes— It sometimes produces Fever— Syncope, Dyspepsia— Hippochondriasis &c Tears are the usual signs of Grief— but intense Grief discovers no Tears; untill there is a degree of direct debility induced—

Cure— The Book called the Mourner, should be resorted to— 'Tis improper to remove the distreſsed Persons from the Houses in which Death took place— The Mourners should by no means attend the Body to the Grave—

Opium— Conversation on general Subjects; but by no means on light mirthful subjects—

3. Anger is injurious, only when in Exceſs— it produces Red Eyes, livid Countinance— Slavering— Agitations of the Hands— tremors of the Body— Convulsions— Hysteria— Appoplexy and Death— Sometimes it produces Paleneſs— Sickneſs at Stomach— Vomiting of Bile—

Syncope—Asphyxia and Death—

Cure—Religious Conversation—before they carry their Paſsion any length, let them say the Lord's Prayer, or count 20. this will give time for reflection—Fear is an Antidote to Anger—A large draught of Cold Water—this acts both as a sedative, and by giving time for reflection—Dashing Cold Water on the Angry Persons—An irascible diathesis may be effectually removed by a Milk and Vegetable Diet—Spirits and Wines should be avoided—When Anger is connected with Fear—Opium may be serviciable—Angry People should speak very low—&c &c &c

Lecture. 23.d March. 5th 1798.

4. Fear—was implanted in us for the useful purpose of defending us from Danger—It is a Disease when it consists in an Exceſs on proper, and when it ~~ex~~ exists on improper occasions—

The proper Causes of Fear, are sickneſs and Death—The Symptoms are paleneſs, tremors, increase of Urine, a short Cough, Syncope, Asphyxia and Death—It raises the Hair erect, and even renders it Grey in a few Hours—It has produced Suicide—Its presence suspends all other Paſsions—Those most subject to Fear, are generally those who are most Cruel— To prevent it, Children should be inured to

Darkneſs— Servants who terrify Children with Ghosts and Hob-goblins should be banished from Families—

The Continuance of Fear is from a want of Education, and may always be overcome by resolution—

Cure— generous or low Diet, with exercise and a due attention to Cleanlineſs, according to the prevailing Disease, have a wonderful Effect in fortifying the System from Fear— The frequent escapes from Death increases, or does not leſsen this Affection of the Mind— We should endeavour to impreſs upon the Minds of those who Fear Death, that no pain attends it— Opium has a wonderful effect in composing the Fear of Death— it also allays the Fear, as well as the Pain of surgical Operations— During Contagious Diseases, let me advise you to carry no smelling Bottles &ca with you; because should you at any time neglect to carry them with you, the Fear excited will prove very prejudicial; but be always employed at something, and put a firm Reliance on the Protection of Heaven—

5. Joy— 'Tis the duty of a Physician to prevent its sudden Operation on the System—

6. Envy and Malice— seldom shew themselves externally (Vide Vol: 2d. Inqs. and Obser:)—

7. Lust— is intimately connected with Moral Evil

in the world – tis deeply seated in the Constitution – tis implanted in us for the Propagation of our Species – When in Exceſs, it should be moderated, as it then produces Tremors, flushed Countinance, Nocturnal Polution, Onanizsm, Mania and Death —— The Cause of this Paſsion is high living, Exceſs in Drinking – Indolence, and a sedentary Life – Womens Paſsions are increased by Weaving – thus much for the Causes in Plethoric Habits, but it appears in debilitated Habits, from Fevers &c —

Cure – 1. Matrimony and Fidelity to the Marriage Bed – 2. Low diet – 3. Labour, or constant Exercise, as long Journeys on Horseback – I mean Men only – 4. The Company of Chaste, virtuous women – 5. Are there any Medicines, which will leſsen this Appetite? Castor Oil, has been recommended; but I believe it poſseſses no other properties, than that of a mild Laxative – Camphor has been used – That there does exist such a Medicine, I have not the smallest doubt ——

8. Perhaps there is a State of Direct debility, the Cold Bath, might be employed with advantage – Such Persons should be constantly employed at Busineſs or Study – 9. Doctor Boerhaave says a fit of Laughter will remove it – 10. A Salivation should be resorted to – 11. Certain Tones of Music – 12. Lascivious~~neſs~~ Thoughts, Conversation, Books and Prints, should be banished – and daliance with the Female Sex should be avoided ——

8. Dreaming and Nightwalking – Diseases

of the Mind and Body– The proxymate Cause is an unequal Action in the Brain——

Causes, are hearty Suppers, or going to bed with an empty Stomach, an inclination to go to Stool or make Water, Noises, Light, tight Ligatures and impression the Body and Ear——

Cure– 1. Constant Labour– 2. avoiding heavy Suppers and empty Stomachs– 3. If from too much Action, a Purge– 3. If from too little– Opium– I have heard of Somnambuli being cured by placing a Tub of Water in their Rooms at Bed time— but letting them previously know it—

Thus Gentlemen, I have finished the Diseases of the Mind– I have for some Days felt, as if I were sailing in a Balloon– I have passed through an untrodden Country– I have given you a glimpse of the way; permit me to recommend it to your future Consideration——

Lecture. 24th: March 6th: 1798.

7. Apoplectic State of Fevers– arises from many Causes– the remote Causes of Fever in general will induce it– as the Contagion of the Yellow Fever, Small Pox, Plague &c.– The Contagion of Influenza disposes that way– if a Person die suddenly during the prevailence of Contagious Diseases, you have good reason to believe he died of Apoplexy from the

Cause of Fever —

Proximate Cause, is a preſsure on the Brain, from an Effusion of Blood, Pus, or Water- All of which have been found in large Quantities on diſsection- When there is an Effusion of Blood from ruptured vessels, it has been called Extravasation- When they are overstreched, it is called Intravasation- Doctor Cullen says the Symptoms are different, according to the different kinds of Effusions; and requireing a different method of Cure- He supposes the Serous indicates the use of Stimuli, while the sanguineous requires depletion- Much mischief has been done by these distinctions, and should be rejected as leading to fatal Practice—

1. Apoplexy from the Cause of Fever may be known from the time of Year in which it appears and other marks of Fever—

2. Intemperance in eating and Drinking- a cause-

3. Contusions-

4. Mephitic Air- or Carbonic Acid Gas-

5. Fumes of Lead and Mercury-

6. Opium-

7. Smoke of Tobacco-

8. Insolation- 9. Long application to Study-

10. Suppreſsion of habitual Hæmorrhagies, particularly Hæmorrhoids—

11. Those subject to Gout, particularly if they escape an Attach of it, are liable to it- these all act as Remote

Causes—

Exciting Causes are—

1. Intoxication — 2. Tight Ligatures — 3. Indigestable Food or Matters taken into the Stomach — 4. Anger — 5. Hot Bath — 6. Exercise as dancing &c. — 7. Long and Loud Speaking — 8. Wet Feet —

'Tis remarkable that the same Causes induce Apoplexy … also … portion … are 1. … — 5. Dull … the Eyes — … &c

Of the Blood — divided
A Halitus, or aqueous Liquor, which flies off.
2d Serum
3. Craſsamentum, may be seperated into 2. Parts — viz:
Cruor, which imparts the red colour to the Blood —
2. Lymph.
1. Watery Halitus.
2. Serum:
3. Cruor. or red globules. and
4. Coagulable Lymph. which several parts, while they contain their native degree of vital temperature, continue in a state of equable mixture

… nces is

3. Purging — This … preferable —

4. Vomiting —

Cure — The Pulse is mostly full, hard and tense — sometimes however 'tis slow, weak and depressed, and the greater the depression the worse the Disease —

1. Bloodletting — The quantity of Blood should be large or small, according to the Symptoms — It should be larger, when it proceeds from Contusions, than when Debility precedes it — The Temporal Arteries, and Jugular Veins

Cause of Fever —

Proximate Cause, is a preſsure on the Brain, from an Effusion of Blood, Pus, or Water — All of which have been found in large Quantities on diſsection — When there is an Effusion of Blood from ruptured veſ-sels, it has been called Extravasation — When they are over-streched, it is called Intravasation — Doctor Cullen says the Symp

kinds of

of Cure —

stimuli,

mischief

rejected

known

ther m

The Serum imparts to the Blood the chief part of its visco-sity or gluey consistence. When subjected to a temperature of 150°. it paſses into a Coagulum, like the white of an Egg in a boiled state. it suffers a similar change if mixed with a quantity of quick Lime; tho' the coagulation proceeds much slower — but if dried by a gentle heat, it is converted into a firm pellucid maſs; ~~is~~. like Gum: arabic: — The Air acts on the Serum by changing its colour — Cruor consists of Globules, first observed by Leeuwenhoek of a spherical figure — ~~St~~ Size of the Globules of the Blood. Physiolo-gists differ; — Hales reckons them equal in diameter to the $\frac{1}{3240}$th. part of an Inch. Senac estimates at about the $\frac{1}{3800}$th part same mea-sure, while others have different opinions — their colour is red, and therefore the crimson cast of Blood is derived from them. The blood in the arteries is more florid, than in the Veins —

3. Contusions —
4. Mephitic Air or Carbonic Acid Gas —
5. Fumes of Lead and Mercury —
6. Opium —
7. Smoke of Tobacco —
8. Insolation — 9. Long application to Study —
10. Suppreſsion of habitual Hæmorrhagies, particularly Hæmorrhoids —
11. Those subject to Gout, particularly if they es-cape an Attack of it, are liable to it — these all act as Remote

Causes—

Exciting Causes—are—

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'Tis remarkable that the same Causes induce Apoplexy Hydrophobia, Hydrocephalus Internus, Palsy &c. also Phrenitis and Phrenicula, according to the Predisposition in the System—

The Premonitory Symptoms of Apoplexy—are 1. Head-Ache—2. Drowsineſs—3. Giddineſs—4. Night Mair—5. Dull or Obscure Vision—6. Sudden darkneſs paſsing before the Eyes—7. Faultering Tongue—8. Tremors, full Respiration &c.

Remedies—for removing these Precursors—are—

1. Bloodletting—
2. Low Diet—
3. Purging—this I believe in many Instances is preferable—
4. Vomiting—

Cure— The Pulse is mostly full, hard and tense—sometimes however 'tis slow, weak and depreſsed, and the greater the depreſsion the worse the Disease—

1. Bloodletting—The quantity of Blood should be large or small, according to the Symptoms—It should be larger, when it proceeds from Contusions, than when Debility precedes it—The Temporal Arteries, and Jugular Veins

have been opened— Opening a Vein however, in both Arms, will ~~however will~~ I believe be generally sufficient— All the Blood that is intended ~~shall~~ should be drawn immediately— otherwise disorganation will very readily take place— Doctor Physick drew from Doctor Dewees, in an Apoplectic State of Fever, between 90 and 100 Ounces of Blood at one Bleeding, and thereby perfectly recoved him—

When the Pulse is depreſsed, the Blood should be drawn gradually, tho' constantly— Doctor Brown, has happily used the gradual Application of Stimuli in Cases of direct debility— there is an equal neceſsity, for the gradual abstraction of Stimuli when the System is depreſsed— Where Bloodletting cannot immediately be put into practice—

2. Preſsure on the Carotid Arteries, as recommended by Doctor Parry— Doctor Glintworth once used this preſsure with succeſs— The Patient should be with his Head erect, and all Ligatures should be removed—

3. Vomits— They were recommended by Doctor Fothergill— If it proceeds from an offending Matter in the Stomach, they are highly neceſsary— I have never used them— The best way to excite vomiting here, is with the Finger or a Feather—

4. Purges— They should be of the active kind— they invite Blood from the ~~Heart~~ Head, to the Intestines— 5. Glysters of a Stimulating nature—

6. Cool and Cold air —

7. Cold Water to the Head —

All unneceſsary attendants should be diſmiſsed —

If we have been called in too late for Bleeding, we must have recourse to Stimulating — as 1. The Arterial Cautery — 2. Cataplasms — 3. Salt put into the Mouth — 4. Fresh Air — 5. Stimulating Glysters — 6. Electricity — 7. Certain Sounds — 8. Frictions — After Patients are cured, a drowsineſs &c frequently follows — Setons should then be used —

To prevent a recurrence of the Disease —

1. Temperance, in eating and drinking should be enjoined; but not abstemiouſneſs — Meals should be moderate — Absence of Stimuli here, as frequently produces Congestion, as the Application — 2. Indigestible Food should be avoided, in those disposed to Apoplexy — The Stomach is a strange Viscus — After 40 Years of Age, it seldom receives a new Aliment kindly — 4. Drinks should be gently Stimulating, as diluted Madiera wine, which has been called the Milk of Old Age — 5. The use of Onions or Garlic, I think, are servisable — I have known a Vertigo perfectly cured, by giving a Clove of Garlic every Morning — tis said a Teaspoonful of Honey or any kind of Syrup, will, if taken after it, prevent its affecting the Breath — 6. Gentle Exercise — 7. Issues or Setons — Violent Exercise, intense Study, Cold Feet, tight Ligatures, Crouded Aſsemblies &c should all be avoided —

Habitual Customs, as Smoaking &ca should be continued—

The third fit of Apoplexy, is not as has been supposed, necessarily fatal—for I have known a Person to have Six fits—

Hypocrates, has very justly observed that Apoplexy without Fever is much more dangerous than with Fever—this you can readily conceive of—the greater the depression, the greater the danger, and the less the Fever—

Intoxication, is a Disease of the Apoplectic kind—
1. vomiting by irritating the Throat should be used—
2. Cold water to the Head and Body in general— 3. Fear—
4. A new Action excited by Anger &ca if it can be greater than the Intoxication—

Lecture. 25th. March. 7th. 1798.

Paralytic State of Fever. It occurs frequently during the prevalence of epidemic or Contagious Diseases— Authors have divided it into Hemiplegia, as when one Side is only affected— ~~All the Common remote and Exciting Causes~~ Paraplegia—when the lower part of the Body is affected— And Paralysis partialis when particular Muscles only are affected—

All the common remote and exciting Causes of Apoplexy produce Palsy—tis nothing more than an inferior Grade of Apoplexy—

Writers take notice of the Pulse being fuller in the affected Side— Pulse is frequently full and tense— sometimes depreſsed and often soft and nearly natural— It affects women more frequently than men— Children seldom have it— The precursors are the same as in Apoplexy— It sometimes succeeds small Pox, Dysentery, and Catarrh, in a small degree— Also it succeeds Dry Belly-Ache—

Cure— the same as in Apoplexy— attending at the same time to the State of the System— 1. Bloodletting— from 100 to 150 Ounces are neceſsary to be drawn in the Disease— I am satisfied where it terminates in an incurable Paralasis, or in Death— it is the Consequence of too little Bleeding— A soft and almost natural Pulse, instead of forbidding bleeding here, loudly calls for it— I dont know any thing I have profitted more by, than this observation of Mr. Hunter's, Viz. "that in affections of the Brain, the Pulse is but little affected;" tis of immense Application— If Mr. Hunter had left nothing more behind ~~[illegible]~~ him, this alone would have been sufficient to have perpetuated his Memory— Celsus says if a man be taken suddenly ill, in high health, he should be bleed regardleſs of his Pulse— lay it down as a rule therefore Gentlemen, always to bleed in Palsy, regardleſs of the Pulse— provided you be called in early—

2. Purging— The Purges should be of the Active

kind- the late Doctor Bond always preferred Purging- Aloes is the best of this ~~kind~~ Claſs, as it excites a strong Action on the Rectum,—

3. Nitre Calomel and Tartar Emetic- may be given with advantage—

When morbid Action is partly subdued- Stimulants should be used- these are either external or internal- The external are either

1. Cold Bath-
2. Warm Bath-
3. Mustard or Horse Radish—
4. Linament of Cantharidis & Ether-

The internal are-

1. Volatile Salts-
2. Tincture Gum Guiacum-
3. Salivation-
4. Violent Paſsions or Emotions ~~4~~—

Favourable Symptoms are- 1. A prickling Sensation in the affected parts— 2. Pain- A sweating of the Limb is unfavourable-

The prophylactic Remedies are neceſsary here as in Apoplexy- as Stimulating when there is debility, and depleting when there is a fullneſs—

9. Comatose and 10 Vertiginous States of Fever- Are to be treated in the same manner as the former, remembering to accommodate the remedies

to the State of the System – they are only lower Grades of the same Disease – Coma in the beginning of Fever requires bleeding in the latter end and low State, Stimulants must be used – Vertigo requires the same treatment ——

11. Waking State of Fever –

1. Bloodletting – 2. Silence – 3. Darkneſs – 4. Labour, used just before bed time – When the Action is weak – 1. A moderate Supper – 2. Porter – 3. Liquid: Laud: 4. Cheese – 5. Aſsafœtida – 5. By imparting equal Excitement to the whole System by walking frequently acroſs the Room – this wears down the Excitement from the Brain, and diffuses it through the lower Limbs – 5. Thinking on one particular subject only, and that not interesting – as counting 100 backwards – 7. A gentle noise, as the falling of Water – The Poet speaks of the "Levis susurris" of Bees – they produce no thought – 8. Light sometimes induces Sleep – Studious Men are most subject to this Disease ——

12. Hydro~~[illegible]~~cephalic State of Fever – affects Children chiefly – I beg leave to refer you to my 2. Vol. Inqs. & Observ: – It however appears sometimes in Adults It is frequently caused by blows and Contusions – 'tis however most generally a Symptom of Fever – It occurs from the suppreſsion of discharges from the Skin – from Consumption, from stopping a Diarrhœa ——

The water in the Brain is always the Effect of Inflamation in the Brain — 'tis proved from all its Symptoms — the Pulse is hard, tense, and slow — vide Vol: 4 — 'Tis remarkable the Pain and Fever frequently go off before Death — 'tis owing to an Effusion, relieving the Bloodveſsels — these Effusisions however react again and produce Convulsions — The Remedies likewise prove it to be an Inflammatary Fever —

1. Bloodletting — this should be copious and frequent — before I used Bloodletting in this disease I lost 25 out of 30 Patients — since I have adapted bleeding in this Complaint, I have not lost one, when I was called in time, and had an uncontroled exercise of my own judgement —

2. Purges — should be given every Day —
3. Blisters — to the Neck or Head —
4. Salivation — should be used, tho not untill after Bleeding —
5. Cold Water or Ice applied to the Head —

Perhaps after the System, is reduced, the Bark and Cold Bath would be proper to give Tone to the System — and prevent a relapse —

13. Nephritic State of Fever — Is generally the Effect of Calculi in the Kidneys — It however occurs in Small Pox, Gout, Malignant Fevers &ca — there is an Engargement of the Veſsels of

the Kidneys – tis known sometimes by Pain in the Back – numbneſs of the Thigh – retraction of one of the Testicles – retention of Urine &ca ——

Cure – 1. Bloodletting seldom fails of producing immediate relief —
2. Cold Air —
3. Purges –
4. Glysters – are of great service –
5. Low diet –
6. Liquid Laudanum – after depletion —

When Nephritis is Chronic, as from Calculi, a little Bleeding is of immense Utility ———

Gravel and Stone might be prevented by Blood-letting – The foundation of Gravel I believe to be nearly always the Consequence of Effusion from Inflammation in the Kidneys – this Effusion is Blood or Coagulable Lymph, which is a Nucleus for a future Stone – We should then, Gentlemen, be led to deplete early in diseases of the Kidneys – There is a kind of Calculous Diathesis, which should be carefully avoided, by 1. every thing of an Acid nature, as an Acid is found to be the Basis frequently of ~~an Acid nature~~ Calculi – 2. By avoiding Costiveneſs – 3. By avoiding sleeping on the Back – 4. By avoiding riding a hard going Horse or Carriage — 5. Gentle Exercise, of that kind which moves the Back chiefly — 6. By drinking copiously of Cold water — Green Teas &c have been recommended; but I expect they act from the water they Contain — The Virginian Springs are useful in this respect — 7. Alkaline Drops and Lime water — the Act by neutralizing the Acid — 8. Certain Bitters — as Uva Ursa, which I believe is the best — should be given in the intervals of the Paroxysms — Bark itself — and all other Tonics — 9. Cold water to the Back by Cloths —

10. Avoid making water on the Back — Cystitis is cured by the same remedies — Worms will produce inflammation of the Kidneys and Calculi —

Lecture. 26th March. 8mo 1798

14. Hydropic State of Fever — I have said Morbid Action in the Bloodveſsels tended to Effusion — the matters effused are 1. Air — this frequently takes place in the Bowels in Cases of Bilious Fever — 2. Halitus or vapour — 3. Serum — this occurs in Dropsey — the water effused in the Brain, does not coagulate, according to the experiments of Dr Woodhouse — probably from its being more finely depreſsated — 4. Serum and Coagulable Lymph ~~is effused alone~~ are frequently effused together —

5. Coagulable Lymph is effused alone — as in the Bowels, Kidneys, Liver, Lungs, Spleen, Gall Bladder, Joints &c and in all these places, Calculi have been found —

6. Red Globules are effused — 7. Serum, Coagulable Lymph, and Red Globules, are sometimes all effused together — When there is Congestion, a kind of Paralysis takes place in the veſsels — Engorgement is produced from the overproportion of Stimulus — When Effusion takes place the Veſsels are relieved of their Load, and are excited into Action —

When Serum is effused in any of the Cavities of the Body or Cellular Membrane, the Disease, called Dropsey is produced The Scarlet, Puerperal, and Rheumatic Fevers, terminate frequently in Effusions, which most frequently take place in the Extremities, producing what goes under the name of Anasarca — The Intermitting Fevers effuses in the Cavities &ca producing Ascites — The Catarrh, frequently terminates in Effusions in the Thorax, called Hydrothorax — In the Brain, forms Hydrocephalus —

Nineteen out of 20 Dropseys are pure Arterial Diseases — The occasional occurrence of Dropsey from a ruptured Lymphatic; are I believe very rare, and still more seldom does it occur from Direct Debility —

Dropsys, naturally divide themselves into those of great, and those of moderate Morbid Action — Of this however you can judge from the Pulse — which is slow in Hydrocephalus — intermitting in Hydrothorax &ca

1. Those Remedies for this Disease which act by diminishing Morbid Action. are —

1 Bloodletting —

2. Purges —

3. Vomits—
4. Fasting—
5. Certain Sedatives as Nitre & Digitalis—

They act only by diminishing the quantity of Serum—and giving room for the Absorbents to act—and do their Office in absorbing the stagnating water—bleeding answers this purpose, much more effectually——

6. Fear—
7. Cold—for facts to prove the justness of these Remedies, (vide Vol: 2d)

2. Those Remedies which excite a healthy Action, are Tonics, both of the Vegitable and Metallic kind—(vide Vol. 2) Since I have adopted bleeding in this Disease my success in recent Cases has equalled my wishes——

In Chronic Dropsey I have been more successful than formerly, from accommodating my Remedies to the state of the System——

However new Bloodletting may be in Dropsey in the United States, I find I am not the first who introduced it into Practice—It was used in France 100. Years ago, by the celebrated Botallus——

§15. Eruptive State of Fever—includes Small Pox, Measles, Scarlet Fever &ca &ca &ca

The Remedies are to be accommodated to the State of the System—

1. Bloodletting should be copiously used ——

2. Purges—

3. Mercury should be freely administred to save the Breast and Brain—

The Anamolies to Small Pox, in addition to what you will find in my Vol: 1. are— 1. There is a great difference between the time of receiving the Infection and the appearence of the Fever, as from 5 to 20 Days— 14th Day is generally the Period in the natural way— 2. In some Cases no Eruption takes Place— 3. Sometimes a Fever continues during the whole Eruption— 4. The Effused fluid is Serum, purulent Matter and Blood— 5. There is a difference in the Continuation of the Eruptive Fever— nine Days is the common time, it however will continue from the 5th to the 20th— 6. It differs from the Parts it affects, as the Brain, Lungs, Lymphatic Glands, producing Abscesses; Trachea, producing Cynanche Trachealis &ca Also on the Limbs, producing Mortification— 7. A Second Crop of Pock appears, which is generally brought on from some Exciting Cause— 8. Some escape it for Years, and even for Life 9. In the Eastern parts of the World, writers say it is never infectious during the Harmattan winds— thus much for the natural way— In Inoculation, the Anomolies are 1. A failure of the Fever after Infection has taken Place, which generally fails—

2. When there is an Inflamation in the Part shortly after Inoculation, resembling the Bite of a Wasp, I have scarsely ever in these Cases seen it succeed — 3. no Inflamation will sometimes appear on the Arm, and the Fever will go through all its stages with regularity — 4. a Second Crop of Pock — 5. I have heard of an Eruption appearing and filling regularly, 3 months after the first Infection — I have seen it take place a Second time — vide vol: 1. — For the treatment of the Measles I will refer you to Doctor Sydenham he taught me to cure it — Bloodletting should be used in the early stage — The Diarrhœa, and Cough which succeed Measles readily yield to Bloodletting — You may prepare your Patients as certainly, and as effectually, as in the Small Pox — vide vol: 2d. 9. Obs:

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16. H Lecture. 27th March. 9th. 1798.

16. **Hæmorrhagic State of Fever** — The System from various Causes is liable to Plethora, and there can be no Plethora without previous Debility, which being greater in particular Parts, there, greater Action is excited —

The Arterial Plethora occurs in Youth, producing Epistaxis and Hæmopte-

-sis — The venous Plethora takes place in Old age, producing Hæmorrhois &c.^a Doctor Cullen, has divided Hæmorrhagies into Active and Passive — I reject these terms altogether, for I deny the existance of passive Hæmorrhagy — there must Action take place in the vessels to produce it — I divide them into Tonic and Atonic, in each of which there is more or less Action in the vessels — they are related to each other as Pneumonia and Pneumonicula —

There are some who are of such particular Conformation, that the slightest Wound, will discharge immense quantities of Blood —

Predisposing Cause, is debility in every part of the System, but more particularly on the Surface, as the Lungs, nose &c.^a — this debility disposes to violent Morbid Action —

Hæmoptesis may be called Pneumonicula cruenta — The vessels here, relieve themselves by a discharge of Blood —

Remote and Exciting Causes, are

1. Certain vicissitudes from Heat to Cold —
2. Pressure of the Atmosphere —
3. Passions of the Mind —
4. Exercise of particular parts — as in loud hollowing, singing, laughing &c.^a —
5. Cold applied to one part, and determined

to another, as Cold Feet – also to the Lungs –

6. Great Heat or pressure from Clothing –

7. Intense heat or Cold –

8. A determination to certain vessels, rendered weak by Habit –

9. Animal magnetism, has induced Hæmopteris – When Hæmorrhagy once appears they are very apt to return –

Is Hæmorrhagy a salutary Discharge? No –
Is nature to be trusted to for the Cure? She is to be trusted less in this Disease than any other I am acquainted with –

Cure.

1. Bloodletting – accommodated to the State of the System –

2. Cold applications, as Air, Water, Ice &ca these Effects of these Remedies prove the justness of my Proximate Cause –

3. Lenient Purges –

4. Sedative Medicines, as Nitre &ca

After Morbid Action is subdued by the above Remidies, give –

1. Opium –

2. Blisters –

3. Common Salt –

4. Bark—
5. Allums—
6. Cold Bath—
7. Exercise—

The Hæmorrhagies which take place, from particular parts, are distinguished by different names — each of which I shall say a few words - and -

1. Hæmoptesis - or Spitting of Blood from the Lungs - it is distinguished from the Blood comeing from the Fauces, as the latter is unattended with Fever or Cough - and the Blood may be seen oozing from the vessels - The Blood from the Lungs has a florid Appearence - that from the Stomach is dark Coloured &ca —

Predisposing Cause - is Debility, either of the Acute or Chronic kind - It occurs most frequently during the night - It is almost unknown in those who use there Lungs much in speaking - as Lawyers - Cryers City watchmen &ca The Clergy are subject to this Complaint, I am disposed to believe in them it is owing to the frequent alterations of Heat and Cold - I have known this Disease twice fatal —

Cure, is to be attempted 1. By lessening Morbid Action in the whole System - by -

1. Bloodletting - in the use of the Lancet

you are to be governed by the Pulse — it will be better to bleed moderately, and frequently —

2. Cool Dreſs — and Cold Liquors applied to the Breast, Scrotum &ca — The late Doctor Cadwallader cured himself of a violent Hæmoptesis by stripping himself naked, and wrapping up in a Sheet dipped in Cold Venegar — it produced universal Constriction —

3. Acids —
4. Nitre; Allum &ca
5. Vegitable Diet —
6. Rest of the Body, and particularly of the Lungs —— To obviate morbid Action in the Lungs, Common Salt, from a Tea Spoonful, to a Tablespoonful — It should by no means be omitted during the Disease — It does not appear to act on the whole System —

After morbid Action is subdued — use —

1. Opium —
2. Blisters —
3. British Oil, I have heard has been used with Succeſs —

To obviate Debility, and prevent a return of the Disease, all the methods laid down in Consumption should be attended to — particularly a moderate Climate — Journeys — a liberal Diet, and Bark — Bark is of great service, I can speak of it from personal Experience — Many people subject to this Disease — live to an old Age ——

2. Epistaxis — or bleeding at the Nose — it most generally proceeds from Arterial Plethora — I have known it twice fatal, in Malignant Fevers — and notwithstanding the Patients lost considerable Quantities of Blood from the Arm, yet still the Pulse continued obstinately Tense, till the last ——

Cure — 1. Bloodletting should be used, if the System be brought into Sympathy —

2. Rest —
3. Lenient Purges —
4. Cold water to the Neck, and Scrotum —
5. Plugs of Lint or Linnen in the Nostrils —

To obviate a return, the Patient should use Low Diet — should avoid much Study — or blowing the Nose — should beware of tight Ligatures &ca

3. Hamorrhagia Uterina — Is to be cured in the same manner as other Hamorrhagies — 1. Rest is of immense Consequence

2. Cold water — vinegar, or Ice to the Parts —

3. A Stream of Cold Air directed on the Parts, previously made bare—

4. Flower thrown on—

5. Blisters to the Thighs—

To prevent a return

1. Bloodletting occasionally—
2. Gentle Exercise—
3. Bark and Port wine—
5. Should avoid climbing up Stairs—

4. **Hæmatemesis**, or a vomiting of Blood from the Lungs— Remote Causes are—Acrid Substances taken into the Stomach, Emetics—Convulsions—Obstructed Menses &c

Cure—same as in other Hæmorrhages—

1. Bloodletting—
2. Cold Water—
3. Common Salt—

5. **Hæmorrhois**, or Piles—

Cure— 1. Bloodletting
2. Linient Purges—
3. Liquid Laudanum—
4. Bark—
5. Astringent Glysters—
6. Exercise—

6. Hæmaturia - or Bloody Urine -

Cure - is the same as others - Common Salt has stopped it - It is owing to great Morbid Action in the Kidneys, and to Calculi —

7. Hæmorrhagy from Wounds - 1. Cold - 2 Dry Lint - 3. Flower - 4. Compreſsion - 5. Liquid Applications should be avoided - Rustins Styptic Solution, will stop bleeding - 5. Sugar of Lead —

Lecture. 28.mo .. March. 12mo 1798.

17. Amenorrhagic State of Fever - is generally attended with most of the Symptoms of Fever - Let all your Remedies be directed to the State of the Pulse - When the System is much affected - your Remedies are,

1. Bloodletting -
2. Purges - especially Aloes -

When there is much weak Action, Tonics should be administred - as

1. Calybeates -
2. Exercise -
3. Calomel -

What is called Emansio Mensium, is frequently owing to an imperforated Hymen - in these Cases, you should have your Patients examined - Emmenegogue Medi

-cines, as they are called, are all of a Stimulating nature They should be carefully avoided in the Inflammatory Stages— I have scarcely been consulted in a Case of obstructed Menses; but what I have found Symptoms of Inflammatory Fever, and have of course had occasion to use Evacuants—

Dysmenorrhagia, is attended with much Pain and Morbid Action in the Bloodvessels— and as this increased Action is in Ratio with the previous Debility, it should be guarded against, by administring Tonics, in the Intervals of the Menses—

18. Hæmorrhoidal State of Fever— Is sometimes a Local Disease; but most frequently it is a Disease of the whole System— It affects Adults chiefly, and Females more frequently than Males— I have seen it produce Dysury and Gonarrhœa—

Causes— are Costiveness— Acrid Purges— Hard riding— Sedentary Life— It often accompanies Gout.

Predisposing Cause, is Debility—

Cure— When the System is affected—

1. Bloodletting— both general and local—

Locally— by means of Leeches— or what is equally as good, puncturing the protruding Piles with the Point of a Lancet— it is astonishing what relief even a few Drops

of Blood affords—
2. Lenient Purges—
3. Horizontal Posture
4. Cold Water, locally applied is one of the most powerful remidies I am acquainted with— I have always used it, and with the happiest Effects—
5. Smoke of Leather—
6. Strammonium Ointment— these two probably act as Sedatives indirectly— The following form of an Ointment, I have found very serviciable—

℞. Sacch: Saturn:
Gum: Opii:
Pulv: Gallæ ā ℈j
Ungt. Strammon: ℥ß M.ft

7. Low Diet—

After Inflammatory Action is reduced, the swelling sometimes Continues, without Pain— which may be removed without Stimuli— as
1. Sugar of Lead
2. Tobacco Leaf
3. Preparation of Tar &Co—

'Tis from this Disease, that, the Fistula ~~in Ano~~ in Ano that most dreadful of all malladies is frequently derived— It may be avoided, by avoiding the Causes mentioned, and by the use of Bloodletting in Piles — as it so frequently arises from neglected or half cured Piles — for as Consumption arises from neglected or half cured Peripneumony, so Fistula in Ano arises from a neglected or half cured Hæmorrhoidal State of Fever ——

19. Opthalmic State of Fever — frequently affects the whole System, and shews itself by inflamed Vessels on the Tunica Adnata —

Causes, are general as well as Local —

It affects the whole System, and accompanies general Fever — External violence — motes — Inverted Hairs — Light — Effluvia from Privies — Heat and Moisture &c^{a} all produce it — Cure — If the System be generally affected, general Bloodletting should be used — otherwise — Leeches — Cupping — and scarifying the vessels of the Tunica Adnata — 2. Purges — 3. Blisters to the Neck, temples and behind the Ears — 4. Cold water — If there be weak Action, Tonics to the Eyes sh^{d}. be used as, Lead water, Lead Poultrice — Aqueous Solution of Opium — White vitriol Solution — Bark — Infusion of White Oak Bark or Leaves, in Water — Maderia — Brandy, diluted — Vapors of Stimulating vegetables — Electricity — Demulcent Applications, as Quince Seeds bruised in Water — Lapis Calaminares and fresh Butter equal parts, makes an elegant and excellent Application — Light Spirituous Liquors &c should be avoided — Foreign substances should be removed from the Eyes - by 1. Eye Stones — 2. Dipping the Face with open Eyes in a Tub of Water — 3. Pressing the Eye Lid close — If there be general Relaxation, Bark and Opium should be administred internally — If it arise from the Affection of another part, that must first be cured — If from general Disease, that must be cured — If from Acrid Humors - Setons and Issues must be used ——

20. Odontalgic State of Fever — is attended with Pain of the Teeth and Jaws — That it is a State of Fever - I infer - 1. From there being Blood vessels in the Teeth — 2. From it occuring in those ~~that~~ who have no other than Sound Sound Teeth — 3. From its occuring in those Seasons of the Year when inflammatory Diseases generally prevail — In Lapland &c where Fevers are few, the Toothach is not known — 4. From its being produced by the Alternate Action of Heat and Cold — 5. From its occuring in the Inflammatory Periods of Human Life — I reject Sugar, Salt &c from having any Effect in producing it - I rest it on Arterial Action — It mostly occurs under 36 Years — The Inflammation sometimes affects the Neighbouring Glands &c — It sometimes affects

distant sound teeth, from the affected one—

Extraction should not be used in the painful inflamatory Period— for if the System is brought into Sympathy, we should use

1. Bloodletting—
2. Gentle Purges—
3. Blister behind the Ear of the affected Side is of immense Consequence—
4. Roasted Fig— to the Jaw—

Opium should not be used during the inflammatory Period, for so far from giving relief it increases Pain and Inflammation— We should apply also, such applications to the Face, as will excite a new Action as Flower and Ginger beat up together— Spirits applied to the Mouth— After the Pain ceases, Extraction should be used— When a Caries has commenced, there are three Methods proposed— 1. To stop the opening with Gold Leaf— 2. To destroy the Nerve with a hot Knitting Needle &c^a 3. Extraction— this last method should by all means be preferred— Absesses are sometimes produced in the Sockets, and Antrum Maxillare— these may be prevented by extraction— Never attempt curing it in any other way— When matter is formed in the Antrum— the adjoining

Tooth should be extracted, and a perforation made into it— Artificial Teeth do not communicate with the veſsels of the Jaw—they are fixed in the Sockets in the same manner as a nail is fixed in a piece of Wood—A Dry Tooth should be preferred to a fresh one— Tooth Ach may be prevented by sleeping in a Warm Night Cap—by avoiding drinking Water very Warm or Cold—By clearing the Tartar from the Teeth—By washing the Teeth every morning with Cold Water, and every night, by brushing them with Water——

There is a Chronic Rheumatism, affects the Jaws, unconnected with the Teeth—we should here use—

1. Bloodletting
2. Opium and Ginger Plaster——

21. Otalgic State of Fever—attended with a Pain in the Ear—

Cure—
1. Bloodletting—
2. Purging—
3. Smoke from burning Sugar—
4. Juice of Hickary Tree—

I have lately heard recommended—When suppuration has taken place, ~~I have heard Injections recommended~~ Injections should be used— Deafneſs might be prevented in many Instances by Bloodletting——

III. Such as paſs by the Arterial System, and fall on other Parts— These I call misplaced States of Fever—

1. Hepatic State of Fever— It is a suffocated State of Fever— It is always Symptomatical except when it arises from Gall Stones— Lesions of the Liver &c.

For a Description of this Disease, I must refer you to Books— I have observed a numbneſs of the lower Limbs attend— the Gums are sometimes ~~bad~~ hardined— Pulse soft— Stools green—

'Tis divided into Chronic and Acute Hepatitis—

Premonitory Symptoms, are, it comes on with Dullneſs and increased Appetite— sometimes unusual Chearfulneſs attends—

Remote Causes— are those which induce Belious Fevers— The Liver Disease of the Indies, is nothing more than a Concentrated Yellow Fever— It affects none under Puberty— Women are more subject to it than Men—

Cure— 1. Bloodletting— should be used copiously and early— 2. Mercury so as to induce a Salivation— It acts by inducing a new Action in a leſs dangerous Part— and as an Evacuant— It seldom affects the Mouth when Suppuration is taking Place— owing to the Suppuratory Action being greatest— Inflammation of the Liver terminates in Suppuration— Schirrous and

~~Obstruction~~ Absorption of the Substance of it— It opens sometimes into the Stomach— Intestines, Lungs— Abdomen, and Externally— An Emetic has discharged all the matter contained in the Liver—

2. Scrofulous State of Fever— Scrophula has been supposed to be a Specific Disease of the Glands— I grant it is so; but it always brings the Arterial System into Sympathy— Its Causes prove it to be a State of Fever— Also its Symptoms as Chills— quick Pulse— Visceral Affections— furred Teeth— black Gums &c—

Doctor Handy says blood drawn in this Disease shews no sizy Appearance— this only proves it to ~~be~~ diseased Action beyond the Power of producing sizy Blood— Doctor Hillary very properly calls it a Fever—

Cure— You are here to accommodate your Remidyes to the State of the Pulse— or System—

1. Bloodletting—
2. Purging—
3. Low Diet—

When morbid Action is reduced, we should employ—

1. Bark—
2. Mercury—
3. Sea Bathing—
4. Opium—
5. Generous Diet—

The Remidies should here be varied according to the varying state of the System— Even slight Causes will produce wonderful Changes——

Lecture. 29th March. 13mo

3. External Inflammations—these are divided by Nosologists into Plegmon and Erythema—the first forms Pus and reaches to the Cutis Vera—the latter never does, and reaches no further than the rete mucosum— In Plegmon where the System becomes to be affected.—

1. Bloodletting—
2. Purging—
3. Low Diet—

Local applications— as—

1. Cold water—
2. Lead water—
3. Emolient Poultices—

If suppuration is comeing on, such applications should be used as stimulate by there Heat—as Flax-seed, Lilly Root &C. boiled in Milk, and then spread over with Oil— If these fail, Lye Poultices should be used, made of Beer, Lye and Bread equal Parts—also Opium and Sal: Amoniac:— When they are ready to open it should be done by the Lancet— Where this is objected to, a Plaister of Flower, Honey and Yelk of Eggs should be applied in order to break it— If Gangrene appear Stimulants should be used, provided the System have given up its Inflammatory Action— such as Bark and Opium— Gangrene of the Toes sometimes takes place in Jail and Hospital Fevers—— Opium then is the proper Remedy—

Paronychia— is a very Painful Inflammation of the ~~[illegible]~~ Pereasteium of the Fingers— When it first appears, the affected Part should be repeatedly immersed in boiling Vinegar or Water— this acts by exciting a new and greater Cuticular Action, or by inducing indirect Debility— and thereby destroying Action altogether—
2. Deep Incision, thro' the Theca of the Finger— 3. Excision sometimes becomes necessary—

Anthrax— Is another external Inflammation— for a description I refer you to Authors— If there be much Inflammation—

1. Bloodletting should be used—
2. Mild Poultices—
3. Detergent Ointments—
4. Bark—

Burns— when they produce Fever, we should use—

1. Bloodletting—
2. Purges—
3. Low Diet—

Such Local Applications as restrain Inflammation— as

1. Cold Water—
2. Lead Water—
3. Poultices of Bread and Milk—
4. Stramonium Ointment—

There is sometimes a Chilliness, which pervades the whole System in consequence of Burns, that is very remarkable— Persons burnt in consequence of a Flame surrounding them, have often a complete Paraphonia— this is owing to the Inhalation of Flame, tis always fatal— there is an incurable Ulcer induced in the Lungs by it—

4. **Convulsive State of Fever**— of this there are several Grades— as— 1. Tremors— 2. Convulsions— 3. Spasms—— They are Tonic and Clonic—

1. Tetanus— is of a mixed nature, between Tonic and Clonic—

Predisposing Cause— is Debility—

Remote Causes— are all Debilitating—

Exciting Causes— are— 1. Wounds— in producing it— it is not necessary that the Tendons, or Nerves should be partially ~~wounded~~ divided— ~~fo~~ ~~where no Tendons are affected~~ for it occurs from Amputation, and from Wounds where no Tendons are affected—

It occurs from Wounds of all kinds— most frequently from Gunshot Wounds— It sometimes follows Wounds after they are healed, probably from some matter being retained — Cutting the Umbilical Cord has produced it — The time from the Reception of the wound to the appearance of Tetanus is various — from one Day to six weeks — The slight wounds from cutting a Nail or a Corn has induced it — Burns induce it — I have heard of a wound of the eighth of an Inch producing it — Inflammation and Suppuration I believe never follow those wounds that induce it — 2. Application of Cold, after the Body which has been previously heated, has frequently brought on Tetanus — A Current of Air on the Head and Neck has produced it — Doctor Hunter mentions it as a Symptom of Bilious Fever —— Doctor Girdlestone in his Account of the Spasmodic Affections of the Indies has many remarkable Instances of this Disease — 'Tis nothing more than a Misplaced State of Fever — which passes by the Arterial System and falls on the Muscular System, with all its force ——

Patients are said to die without shewing any marks of Inflammation on Dissection — this only proves that Morbid Action is so great as to transcend Inflammation — 3. Terror has produced it — 4. Acrid Matter in the Alimentary Canal, as the Meconium in Children — 5. Drawing Teeth has brought it on — 6. By eating the Hemlock — Drop-

-wort, and Stramonium— 7. Parturition— 8. The late Doctor Bartram of North Carolina informed me he had seen a large Draught of Cold water induce it— 9. Symptoms of Hysteria— 10. Sometimes it occurs in Gout and worms ——— 11. In Hydrophobia—— Are there any Premonitary Symptoms? Yes, there are— Pain and stiffness of the Neck— Starting in the Sleep, often precede this Disease— and may be prevented by—

1. Bark—
2. Opium—

If from a wound the part should be inflamed and and irritated with Terpentine— Salt— Tincture of Cantharides— Salt or Lime Juice— previously however dilating the wound— Here Inflammation being excited locally, a Tone is thereby given to the whole Arterial System— and a general equal Excitement produced— If it appears to arise from Bilious Affections, an Emetic should be given— When violent Action takes place, we should use—

1. Bloodletting—
2. Cold— Mr. Hunter, I have been informed by one of his Pupils, used to say when speaking of this Disease— "If I were to be attacked with Tetanus, and were able, I would throw myself in an Ice House, or transfer myself to the Cold regions of "Nova

Zembla" — 3. Purges — If they cannot be administred Glysters should be given — We should always be on the watch for Symptoms of weakened Action, and whenever they appear, give —

1. Bark } freely
2. Wine }
3. Opium — }
4. Oil of Amber }
5. Flower of Mustard —
6. Injections of all those Stimulants and Tobacco, when they can't be given by the Mouth should be attended to —
7. Cold Bath — by plunging — I have seen it cured by the sudden Affusion of Cold water — Here it acts as a Stimulant —
8. Mercury — externally and internally — Tone is thereby communicated to the Nerves thro the Medium of the Arterial System —

Doctor Girdlestone — advises the Patient to be wrapped in Hot Blankets — and to take large Quantities of Wine, and Opium —

For the Trismus Nascentium or Jaw Fall — I am sorry to inform you Gentlemen, I know of no Cure — It may be prevented —

Lecture. 30th March. 14mo 1798 —

5. Hypochondriac and Hysteric States of Fever — The Nerves and Arteries are both affected — Patients are said to have a Complication of Diseases; but it is no such thing — Remedies — are the same as in other States of Fever, only attending particularly to the States of the System — and such as act particularly on the Nervous System, as Aſsafœtida —

6. Cutaneous State of Fever — (vide Vol: 4th.)

Leprosy — is nothing more than a Fever — As Cholera, is a Bilious Fever of the highest grade, turned in upon the Stomach and Intestines, so Leprosy is a Fever of the highest grade, turned outward — The Black Colour is owing to Black Blood being deposited on the Rete Mucosum — Vomiting and Purging — have cured this Disease — Tar in different forms has cured by evacuating — so has Bloodletting — I am led to believe the Cure will finally be discovered in the Lancet — I have seen it follow half cured Bilious Fever — 'Tis in fact nothing more than a misplaced ~~Fever~~ State of Fever — Leprosy, occurred in Great Britain during the Plague —

Cure — 1. Bloodletting — The Symptoms are soreneſs of the Skin — Inflammation, Blotches &ca — all call for it — It is astonishing the Effects Bloodletting has on the Skin — The violence of translated Leprosy proves the Necessaty of Bloodletting — I have seen it translated to the Lungs — producing Pulmonary Consumption — There does exist a Cure for Leprosy — if there were not, Heaven, like Man would be kind only by [illegible] halfs, and the Cure I doubt not will be found in frequent Bloodletting — Examine the Pulse, Gentlemen, — it has never been attended to, in this Disease 'till lately ———

Scurvy — I have said is nothing more than a misplaced State of ~~Fever~~ Jail Fever — The same Causes induce this as other States — Fowl Air is one of the most frequent Causes — The same Symptoms take place here as in other Fevers — The same Remidies cure it — Fresh Aliment generally cures it — Would not the Lancet be proper in the Commencement ———

IV. We now proceed from Febrile Diseases to those which affect the Nervous System primarily, and the Arterial System, secondarily — and the Arterial System accordingly — I have said formerly that Casualities, War and Old Age were the only outlets of Life — Fevers are the only natural, original Diseases they have now not only diminished, but they have changed their Typhes ———

In simple Ages, and regular Life, morbid Stimuli, produce morbid Action in the Arterial System — In more luxurious Life these same Stimuli produce disease both of the Nerves and Arteries — as in Gout &ca — In high luxurious Ages, the same Stimuli will produce pure Nervous Diseases, or Syncope &ca — The Nervous and Arterial Systems Cannot be long affected seperately without bringing each other into Sympathy — I however wish to confine myself particularly to those which chiefly affect the Nervous System — remember with the Nerves, I include the Muscles ——

1. Catalepsy — appears to be an inferior degree of Apoplexy — there is some degree of Congestion in the Brain — Sudden Fright — unsuccessful Love, will produce it — It sometimes occurs as a Symptom of Fever —

The Patient stands perfectly stedfast &ca

Cure — The same remedies should be used here as in Apoplexy, only of an inferior Strength — In those Convulsions which exist independent of Arterial Affection, Opium, if the Action be moderate will generally answer in preventing them — Cold Air should be applied during the time of Convulsions, particularly in Children — To prevent it in Children, Tonics should be used — Convulsions in the commencement of Fever, portend no danger — in the close, they are generally fatal — Convulsions during

Parturition are generally fatal; they may here be prevented by being kept Cool ——

2. Corea Sancti Viti (Vide Doctor Cullen) — Doctor Sydenham has very properly recommended Blood-letting in the Commencement of this Disease - and then Chalybeates - If these fail, Oil of Amber will be found a powerful Medicine - It mostly occurs in Children - I have seen it twice in Adults ——

3. Cramp - is a violent Contraction of the Muscles - Predisposing Cause is evidently Debility - as it generally occurs in Sleep, and while swimming, when the System is debilitated - Hippocrates very properly says - "Atonia gignit Spasmos" —

Cure - If it occur during the Night, the Person should rise suddenly - Frictions should be employed - tight Ligatures above the Knee, except the Patient be a pregnant Female - squeezing a Roll of Sulphur has removed them - 'tis merely by exertion ——

4. Hiccup - is a Convulsive Action of the Diaphragm - it occurs frequently from Drinking &Ca I speak of it as occurring independent of Fever ——

Cure - 1. Stimulating Paſsions, as Joy &Ca - or 2. Sedative Paſsions, as Fear &Ca 3. Opium —
4. Oil of Amber ——

Lecture. 31.mo March. 15th 1798

5. Epilepsy— Doctor Cullen defines it to be a Convulsion of the Muscles accompanied with Sleep— It has been called "Morbus Commitialis"— and "Morbus Sacer"— I have thought and read much on this Disease— but I am sorry to say. I know little more concerning it than I did, when I first began the Practice of Medicine—

All which I shall be able to give you will be a few Facts— That a cure will be found out, I have no more doubt, than that the Sun will rise and set to morrow— "Dies Doceat"——

Remote Causes— Are Local and general— Under the first Head are 1. Fractures— 2. Effusions in the Brain— 3. Calculi— 4. Worms— 5. Tumors in every part of the Body——

Under the second Head, or those which act generally, are 1. Great exercise of Body or Mind— 2. Violent Paſsions— particularly Fear— 3. Intemperance in eating and drinking— 4. Indulgence in the Venereal Appetite to Exceſs— 5. Onanism— 6. Repelled Eruptions— 7. Sleeping in the open Air——

These Causes induce a mobility in the System, as to be thrown into Action by the slightest Causes— 'Tis a higher Grade of Hysteria— A fit when once formed, is ever after apt to return from habit and Aſsociation——

Are there any Premonitary Symptoms of this Disease? Yes. there are—

1. A bitter Taste in the Mouth, for two or three Days previous to a Paroxysm of the Disease — 2. Tremors — 3. Tense or Slow Pulse — 4. Head Ache — 5. Inflammation of the Eyes — 5. A Peculiar smell of the Breath —

Remedies for these Precursors - are —

1. Vomits —
2. Purges —
3. Abstinence —
4. Bloodletting — if the Pulse require it —
5. Opium - if there be languor or but little Action —
6. Sulphur - has prevented it — as also has the smell of it ——

Accidental Cures - have been performed —

1. By the Change that takes place in the System at the time of Puberty has removed Epilepsy —
2. In Women, Childbearing has cured — 3. It wears of with Age — 4. A Change of Climate — 5. Full Diet, after having lived previously on a low diet — has performed a Cure, as the late Doctor John Morgan informed me —— These Cures suggests to us the propriety of using Tonics in this Disease — Tonics act in Proportion to Excitability —

Epilepsy in early Life is chiefly accompanied with Plethora, which produces a Predisposition to the Disease— I don't mean by Plethora, a Morbid Action in the veſsels——

Cure— 1. Bloodletting— Doctor Brown relates an Instance of Epilepsy being cured by Bloodletting being used till Dropsy was induced— And why not? If Bloodletting be used here untill the System be brought to the Effusion Point— I can very readily conceive that this new disease may remove the Old one—— Dropsy is certainly a much more maneagable disease and who would not rather have Dropsy than Epilepsy——

2. Milk and Vegitable Diet has sometimes cured— Doctor Cullen put more dependance on low diet than any thing else in this Disease— When I recommend low diet to my Patients, I generally allow them to make use of salted Meat and Fish— it keeps up a Tone in the System and at the same time leſsens the Quantity of Blood— according to Doctor Beddoes, it affords leſs Oxygene—

3. Purges—

After these Remidies have been used for some-time— the different vegetable and mineral Tonics should be used—— as—

1. Bark—
2. Miseltoe—

3. Opium—

4. Zinc—

5. Magistary of Bismuth—

6. Steel—

7. Strammonium Seeds—they have a specific Action on the Brain, and Nerves—Doctor Archer of Maryland informed me he had twice succeeded in the Cure of Epilepsy with Strammonium—

8. Iſsues and Setons—

9. Ligatures—round the Limb to prevent the Aura Epileptica rising to the Brain—As there is often a retrograde Action of the Veſsels in the Body—So the Electroid Fluid instead of paſsing out of the Body, from the Extremities—takes a retrograde Action to the Brain—

10. Glysters of Tobacco—

11. Uniform Impreſsions from Diet, Paſsions—

12. Change of Climate—from a varying to an equable one—which from a Uniformity of Stimulus, tends to keep up equal Excitement—

13. Hard Labour—

14. Long Journeys—

15. Fear—

16. Salivation, has been the

only Remedy, that has proved Radical in my Hands— I have four times succeeded and twice failed by it— I generally bleed before using the Mercury— I have failed in exciting Salivation— All the remote and exciting Causes should be carefully avoided— If the Disease arises from Tumors they should be extirpated— worms Calculi &c^{a} should be dislodged— Repelled Eruptions should be restored— During the fit, Bloodletting sh^{d} be used ——

Lecture 32d. March. 16th. 1798

6. Hysteria— is attended with a rumbling Noise in the Abdomen— Globus Hystericus— Fickleness of Mind— they are constant only in inconstancy— it has ~~been~~ therefore with propriety been called a Proteus like disorder— It appears sometimes in form of Apoplexy— and swelling of the Face and Extremities— it arises from Halitus, and does not pit like common Dropsical Swellings— It appears also in form of Head Ache— Chilliness attends— Clavus Hystericus, which is a coldness of a small spot on the Head— despondency— Despair— increase of Urine— wakefullness— frightful Dreams— Laughter— crying— sobbing— Dyspepsia &c^{a} this last Symptom never appears in this Disease, but when it is tending to Hypochondriasis——

For a description of Hysteria (vide Sydenham and Cullen) It affects Women more than Men – and those between Puberty and 35 Years – I have seen it however at the Age of six Years – It continues frequently during the whole period of Menstruation – Single women – widows and barren women are most subject to it –

Predisposing Cause – of this disease is Debility – accompanied with a Plethoric state of the Bloodvessels –

Remote Causes – are 1. Obstructed or an unusual flow of the Catamenia – 2. Strong Tea – 3. Leucorrhœa 4. Lasciviousness &ca –

Exciting Causes – are 1. Sudden emotions of the Mind – 2. Offensive Smells – 3. Heated and impure Air – 4. Fatigue &ca –

The mobility or Excitability of the System is great – the Excitement very weak –

Hysteria and Hypochondriasis – are distinguished from each other, as follows –

1. Hysterical Patients have a great disposition to motion, which is not the Case in Hypochondriasis
2. In Hysteria there is a great instability of mind – now in Hypochondriasis there is a uniformity of mind, and one object is always in persuit –

3. Hysteria is always worse in hot, and best in Cold weather—vise versa, in Hypochondriasis— 4. Hysteria affects women more than Men— 5. There is the Globus Hystericus— 6. In Hypochondriasis Dyspepsia occurs——

Hysteria is to Hypochondriasis, what Typhus Fever is to Synocha—

Cure—is to leſsen the Excitability of the System, and changeing it into regular Excitement—by—

1. Bloodletting—provided the Pulse will bear it—
2. Cold Bath—
3. Stimulating Gums—as 1. Aſsafœtida—2. Galbanum—3. Sagapenum—and 4. Myrrh—
4. Stimulating applications to the Abdamen, as a Galbanum Plaister—
5. Compreſsing the Body with Bandages, and thereby giving Tone to the Nervous System—
6. Accommodating the Diet, to the State of the System, whether Plethoric or otherwise—
7. Constant pursuit of some interesting Object—hence the Neceſsity of calling such women to the Care of a Family—few good House wifes have it—
8. Excitement of some steady Paſsion—

Fear and Grief, however strange it may sound, have cured Hysteria — also the pursuit of Religion —

9. Cold Climate or Air —

10. Matrimony —

A Paroxysm of Hysteria is to be cured, by —

1. Bloodletting —
2. Pediluvium —
3. Discharging wind from the Bowels by means of a Glyster Pipe —
4. Garlic or Mustard to the Feet —
5. Opium —
6. Fumes of Burnt Feathers

There appears to be an inverted order of Motion in this Disease —

7. **Asthma** — is a difficulty of breathing mostly accompanied with a Mal conformation of the Lungs, and unattended with Cough — 'Tis evidently a Nervous Disease —

Predisposing Cause — is Debility —

Exciting Causes — are Heat — Passions — Particular ~~Odours~~ Odors — repelled Eruptions — indigestible Food — this should teach you to be particularly attentive to the Diet of your Asthmatic Patients — It occurs sometimes in Gout, and during Pregnancy — It is under the Influence of the Moon— Proximate Cause—is a Spasm of the Bronchial Veſsels—

The Precursors are Drowsineſs—Windineſs &c—

It may be prevented, by—

1. Emetics—
2. Bloodletting—
3. Pediluvium—

A fit of Asthma, is to be treated—by

1. Bloodletting—if the Pulse require it—
2. Cold Air—and Cold Drinks—
3. Vomits of 1. Oxymel of Squills 2d Tartar Emetic, or 3. Ipecacuanha—
4. Gentle Purges—

After the System is reduced, give

1. Laudanum—
2. Lac: Amoniae has been used—
3. Warmth is now proper—
4. Vapours of Hot Water, impregnated with scraped Horse Radish—
5. Blisters—to the Ancles & Wrists—
6. Pediluvium—
7. Acids—as venegar or Elixr. vitrial— Sir John Flawer highly recommends Acids—

Can Asthma be eradicated from the System? when not from an Organic Affection of the Lungs it may— Nature sometimes does—

Methods of avoiding it, are 1. To carefully avoid Plethora by occasional Bloodletting— and an abstemious Diet— 2. By avoiding all kinds of indigestible Food— 3. By a Climate and Air suited to the Disease— a moist Atmosphere, in most Cases appears to be neceſsary— The Man in Providence, and the Cave— 4. By Setons— 5. By avoiding occasional Causes, as Cold Feet— much Heat &ca 7. An Indian Life has cured the Disease— A Laborious Life therefore should be recommended— 8. Such Patients shd sleep on Matraſses and the Floor— 9. By returning to Old Habits, as Snuffing &ca 10. The Cold Bath, is of immense Consequence— 'Tis a Disease of the whole System— The more we treat every Disease as an Intermitting Fever— the more succeſsful we shall be, as we will then remember we should generally use Tonics or Stimulants in the Intervals, and Evacuants during the Paroxysms— Asthma, is distinguished into the Dry and moist— the former is always the worst kind— the latter relieves the Lungs by Expectoration

8. **Dyspnoea**— differs from Asthma in being more constant— It frequently arises from the same

Causes - particularly from enlarged Viscera - from Effusions of Water in the Thorax - from Fat, from Tremors in the Trachea —

Lecture. 33^{d} March. 19mo 1798.

9. Hooping Cough - arises from Contagion - rarely attended with Fever - Children are most subject to it - (Vide Doctor Cullen) 'Tis a Nervous Disease - It sometimes exists without hooping —

Cure - In the treatment of this Disease - the Pulse - season of the year and habit of the Patient should be attended to — If morbid Action exists, we should use —

1. Bloodletting -
2. Emetics - should by all means be given, every Day - particularly Squills - and Ipecacuanha - sometimes Tartar Emetic —
3. Purges - such as Rhubarb & Calomel -
4. Cold Air - as riding in the Cool Air -
5. Fear - has suspended the Paroxysms —

After the Morbid Action is reduced - (Doctor Cullen supposes the Disease to be kept up from Habit - Perhaps it may be so - we should then give —

1. Opium —

2. Trª Asafœtidæ—
3. Oil of Amber—
4. Garlic—
5. Cantharides—has been recommended—
6. External Applications—as, 1. Pitch Plaisters—2. Blisters—3. Spirituous Infusions of Garlic rubbed in the Spine, &cª—
7. Change of Air, is of immense consequence—
8. Gentle Exercise—

The ordinary Period of this Disease is Six Weeks—tho' it is by no means constant—Superstition in the remedies for this Disease has prevailed more perhaps than any other—The Love of Money and desire of Health appear to level all Capacities—

10. Colic—There is certainly a Nervous Species of this Disease—I formerly described to you the Febrile Colic, which can always be known from the Pulse, and other Symptoms, Season of the Year &cª—We now shall speak of Colic, with increased Excitability, and debility in the Nerves and Muscles—it is mostly unattended with Fever—

Remote Causes—are 1. General Diseases as Hysteria—Hypochondriasis—Gout &cª—2. Diseases of Contiguous parts as Nephritis—Hepatitis &cª—Remedies must in these ~~Diseases~~ Cases be directed to the Origin

Disease— 3. Certain Aliment will produce it, as Cabbage Waters impregnated with Lead— Sour Victuals— Honey— Calculi—Arsenic and Copper—Stone Fruits— Lamb— Veal— Fat Meat &c— 4. Deranged State of the Intestines from Ruptures will often produce it—

Exciting Causes—are several of the Remote Causes, as Cold Feet, Strong Tea &c—

Predisposing Causes is Debility

Proxymate Cause—is Spasm— most frequently on the Illium— The Iliac Passion— Colica Pictonum &c are nothing but high Grades of this Disease— There is certainly a foundation for the Bilious and Nervous Colics—the one is Inflammatory, the other not—

When Premonitory Symptoms appear, as Flatulency—slight Pain &c it may be prevented by

1. Liquid: Laudanum: gtt. x or xv—
2. Pediluvium, powerful in preventing—
3. Riding a few Miles—

When the Disease has formed, and Morbid Action exists—
1. Bloodletting should be employed—

I have bleed where the Pulse informed me nothing— Pain and Spasm often call for the Lancet as much as any thing beside — 2. Linient Purges — as Castor Oil — Crem: Tart: and Salts — 3. Guiaicum — is used in the West Indies in the form of a watery Solution sweetned, as a Purge —

4. Glysters — are strongly recommended by Doctor Cadwallader — he thought they should only be used after Purges — I have used Glysters of Cold Water from ℔j to ℔ij with advantage —

5. During the use of these Remidies, a little Opium should be used to ease Pain —

After Morbid Action is subdued — give

1. Opium — 2. Warm Bath — 3. Purges of Rheubarb and Calomel — 4. Warm and Stimulating Applications to the Bowels — 5. Stimulating Glysters, as Tobacco, which will act from its Quality, and Water which acts from its Quantity — 6. Blisters to the Thighs are immensely ~~usful~~ useful, they should not be used till after the System is reduced —

7. Throwing Cold Water on the Extremities — 8. A Salivation — no Patient should be let die without using it — It is almost infallible — 9. Water impregnated with Tobacco Smoke, has been recommended to drink in Colic — 10. A Tea of Burdock Seeds — 11. A Spanish Physician has strongly recommended Sugar of Lead —

Favourable Symptoms are an increase of Urine — Crepitus — Appearence of Scybola &c —

A Paralysis sometimes succeeds, which may be removed by depletion and Stimulating Applications— It seldom comes on after sufficient Depletion has been used—

It may be prevented by attention during the Intervals, to the Diet— a mixture of Aliment should be avoided— The Potatoe is almost, the only Vegitable that may be eaten with impunity— Costiveness should be particularly guarded against— Cold Feet should be avoided— Flannel should be worn next the Skin— Exercise should be used— Oily Aliment has been recommended— The habitual use of Garlic and Onions have wonderful good Effects——

11. **Diarrhœa**— Is often a Disease of the Muscles of the Intestines unaccompanied with Fever—

Produced by Causes acting in the Alimentary Canal primarily— as Acrid matters of various kinds— It sometimes attends Pregnancy— An incurable Diarrhœa in Children sometimes arises from an obstruction of the Lacteals and Mesenteric Glands— When there appears to be a Plethora—

1. Bloodletting should be used— Doctor Sydenham highly recommended it—

2. Purges are often given tho' improperly— None should be given, except Rheubarb toasted— in this way it gripes less——

Vomits of Ipecacuanha, are excellent in Diarrhœa — 4. Opiates with Ipecaccuanha are good — 5. Stimulants and Astringents as Kino — Oak Bark — Persimmon Gum — Tormental — Brandy and Loaf Sugar — 6. Tonics — Bitters of all kinds should be used — they should be combined with Aromatic Substances as Cinnamon &c — 7. Balsamic Medicines are often very serviciable, as the Balsam of Copaiva and of Terpentine in Pills — 8. Glyster of Ipecaccuanha ʒss — Opium: grs ij and Rice Jelly is very serviciable — 9. Mullin Milk — Large draughts of Toast and Water — Mallow Tea &c — 10. Blysters to the Wrists and Ancles — 11. Suitable Diet — i.e. Acescent and Alkalescent as occasion may require — 12. Warm Bath — 13. Cold Bath — 14. Exercise — 15. Sea Voyage — 16. Salivation should always be tried — 17. A Change of Water has cured — 13. Attention should be paid to the vessels in which the Patients Diet is cooked —

I have known an habitual Diarrhœa cured by a Pleurisy —

Lecture. 34th. March. 20th 98.

12. **Dyspepsia** — is attended with flatulency, pain in the Stomach, and irritations &c —

Causes which act directly in producing it are Bitters — Tobacco — Ardent Spirits — Opium — Strong Tea frequent repletion of Groſs Food—also with much Liquid—swallowing Aliment without mastigation—frequent vomits—rejection of Saliva by Tobacco—much Sugar—Nitre &c—

Causes—which produce Dyspepsia, by acting on the whole System, are 1. A Sedentary Life—2. Vexation of Mind—3. Exceſs of Venery—4. Much Study—5. Frequent Intoxication—

Predisposing Cause—is an increase of Action in the Muscular fibres of the Stomach—Mr. Hunter supposed Life to be seated in the Stomach—Doctor Cullen &c—

Remote Causes, (in addition) are, vapid Aliment—Acid Diet &c—

Cure—Paliative Remidies, are—

1. Magnesia—
2. Lime Water—
3. Alkalies—
4. Common Salt, by itself or with Lime Juice—
5. Milk, when Gastrodynia attends—
6. Opium—when Gastrodynia attends—and just before eating—
7. Laxative Medicines, particularly Aloetic Pills—

Radical Cure—

1. All Causes must be avoided—

2. Vomits—as Vitriol: Alb: or Ipecacuanha—

3. Bloodletting—may be neceſsary, where much Gastrodynia attends—

4. Bitters—as Camomile—Quaſsia—Colombo &ca Horse Radish—Garlic—Aromatic Substances or Orange Peel—Pepper &ca— Doctor Cullen advises Bark—it is not good—

5. The Rust of Iron with five grains of the Powdered Root of Colombo to each Dose, makes the most valuable preparation in this Disease— Preparations of Iron, darken the Stools—

6. Salivation—should by all means be tried when other Methods fail—

7. Diet, must be accommodated to the State of the Patient—Beef—Mutton—Wild Fowl—Salted Meat—and raw Oysters—best— Parts nearest the Bone to be preferred, and made tender before use— they should be taken often— Biscuit—toasted Bread— no Liquids should be taken with the Patients Diet, I always forbid them to drink while eating— A Glaſs of good Madeira or Porter may be allowed afterwards— The quantity of Food given them should be small, and as the smell of Food often destroys the Appetite, they should be kept from Large Tables— Each kind of Food must

be taken seperately— If Patients reject food in all these Instances— their Aliment should be given them in Bed—

Turnips, of the vegetable kind are to be preferred— A Spoonful of Milk, every Hour, is excellent— It is common to forbid Butter and fat Meats— I have not found them so hurtful— Butter I think is of no disservice—

The Stomach should never be permitted to be quite empty; for when so, like an Idle Schoolboy, it always does mischief— Should Madeira and Porter be rejected— Brandy and Water, or simple Toast and Water must be substituted— A Love of Ardent Spirits has been cured by Tart. Emetic— It cures by a new Association of Ideas— Religion &Ca— Tea and Coffee are good to prevent an Attachment to Spirituous Liquors—

13. Syncope— is a diminution of the Motion of the heart and every part of the Body— Causes are 1. Organic— 2. Passion— 3. Hamorrhagies— Predisposing Cause— is Debility— Proximate Cause, is the absence of Action and Motion in the Nervous System— Cure— When it is owing to Organic imperfection, tis incurable—

When from other Causes—

1. Stimuli of different kinds to the Nose—
2. Fresh Air—
3. Cold Water—

4. Blisters—
5. Cataplasms—

Syncope from Drinking Cold water, is to be relieved by Liquid Laudanum —— When from Heat the warm Bath, is the Remedy— Prevented by Exercise— Cold Bath and avoiding the Causes— It may always be overcome by resolution——

14. **Asphyxia**— It resembles Death in a strikeing manner— It is a State of Inaction— Substances taken into the Stomach produces it— Also Cold— and Sometimes Contagion— Also Carbonic Acid Gas——

Cure— this is different as to the Cause producing it— Life depends upon the Stimulus of Heat to the whole System, and the Application of Oxygene to the Lungs.——

In order to restore Life therefore, these Stimuli should be applied— they must be used according to the State of the System— Frictions &c.^a^ Death from drowning, is from an abstraction of Dephlogisticated Air— Stimuli of all kinds should be gradually applied —— Vomiting— Bloodletting— and Purging, are improper— The Body is lighter than Water— Why does it sink at first? 'Tis owing to the Contraction of its Fibres— Why does it afterwards Swim? 'Tis owing to Putrefaction——

Asphyxia— from hanging, is to be treated in a similar manner——

Lecture – 35.th. March. 21.mo 1798 –

15. Head Ache – is partly Arterial, and partly Nervous – It is a Symptom often times of Inflammatory Action, in the different States of Fever – the Remedies in such Cases must be such as have been recommended in those States of Fever – When it occurs in Fever of too little Action, it is to be cured by Wine, Opium &c by equally diffusing the Excitement thro' the System – Intermitting Head Ache, is to be cured by the Remedies for intermitting Fevers – Sometimes it is a Symptom of Gout – 'Tis sometimes Symptomatic of Rheumatism – When Chronic, the steams of hot Water are good – Head Ache, arises frequently at that Period of Life between 35 and 40. when there is a Struggle between the Arteries and Veins – 'tis to be cured by depletion —— Contusions of the Head are often a cause of the Disease – it will happen a long time after such accidents – Depletion should be used – Sometimes incisions to the Cranium are necessary – Abstructed Menses, is frequently a Cause of Head Ache – The Obstruction must be removed to relieve the Head Ache – 'Tis oftentimes caused by Abscesses in the Frontal Sinuses – it sometimes occurs in Influenza – I have seen it alternate with a dysmobility of the Arms – It frequently occurs from Dyspepsia, from certain Aliments, as Butter, Chocolate &c – All Causes are to be

avoided in order to prevent it — the Contents of the Stomach are to be evacuated — During the Paroxysm of Head Ache, a little Liquid: Laudanum, or Wine may be given — The Sick Head Ache is perfectly prevented by a Dose of Laudanum — Sometimes a little Bloodletting is really neceſsary — When Head Ache is the effect of Histeria and Hypochondriasis, the remedies are the same, as for those Diseases — Sometimes it alternates with Mania; in this Case, excitement is transferred from the Nerves to the Bloodveſsels — It alternates with Tremors — arises from extremes of Cold and Heat — from certain odors, and winds, also from intense Study — then it is called Morbus Studiosum —

Mercury lodged in the Deploê of the Cranium, has been found a cause of it — When the Arterial System is affected, we can readily be informed from the Pulse —

Cure —
1. Bloodletting —
2. Cupping —
3. Laxatives —
4. Bark; when Periodical —
5. Blisters —
6. Iſsues —
7. Darkneſs — Silence, and Rest —
8. Cold Applications — as Vinegar &c

9. Tight Ligatures, as well as all exciting Causes, are to be carefully avoided—

When the Pulse discovers marks of Inflammation, Digitalis is good— When there is Action, Coffee sh^d. be avoided— Emetics afford only temporary relief— valerian has been used—

When there is too little Action, we must use—
1. Opium—
2. Wine—
3. Assafœtida—
4. Gently stimulating Food—
5. Blisters—
6. Sternutataries—
7. Tea and Coffee—
8. Æther—
9. Cloves applied externally—
10. Pediluvium—
11. Cold Bath—
12. Salivation—

Head Ache, of long duration, often ends in Deafness— Blindness &c^a

Venerial Disease—

'Tis the prerogative of God to punish Man— says Sydenham— not of Man— It has been divided into Gonorrhœa and Lues Venerea— Gonorrhœa, is divided into benigna and virulenta—

Gonorrhœa benigna— occurs from much Venery— from bruises— from Gout— and Intermitting Fever— from new impressions— from mere Debility, as fear, and from teething—

Gonorrhœa virulenta— arises in Consequence of impure Coitus— from a tainted Bed— from a tainted Necessary— from tainted Breeches— Hard Drinking will re-excite it— From three to six Days; is the general Period it appears— after contact— tho' it will appear at much more lengthy Periods— It may be cured in its Simplest state by dilution with mild Liquids— and external Lotions—

Mercurial Ointment made without Terpentine, the yelk of an Egg, and a Solution of Gum: Arabic makes an excellent Injection— A Scruple of Calomel, in four ounces of ~~Sol~~ Sol: Gum: Arabic: is also a very valuable Injection— 1. Chancres— may be removed by Red Precipitate, Savin &ca— 2. Swelled Testicles, may be removed by suspension— Emetics, Mercurial Ointment &ca— 3. Buboes— cured by Mercurial Ointment— The Lye Poultrice should be used of

tending to Suppuration — they should never be opened —
4. Phymosis — prevented by keeping the parts clean — cured by Emolient Poultrices and incision — 5. Paraphymosis, to be cured by Cold Water — the Taxis — Sugar of Lead &c.
6. Chordee — cured by Opium, and sleeping in tight Breeches ——— 7. Gleets, cured by Balsam of Copaiva — Steel — The following makes a capital Injection —

℞ Sacch: Saturn: gr. xij
☿ Corros: Sublim: gr. i
Spt. Sal: Amon: gtt. XL.
Aq. Fontan: ℥iv M.ft.
et injicit sape in Die.

A Simple Gleet may be cured by Matrimony —
8. Strictures, cured by Bougies, by Caustics — The preparations of Lead are improper for injections ———

Lues — is to be cured by the use of Mercury internally and externally — The Patient should bathe in Warm water before using the Mercurial Frictions — The best form to exhibit Mercury in, is to triturate the Quicksilver with Gum: Arabic and mix it with Soap — Warts are to be cut off, when they form — Patients should not be Salivated to a great extent — The Ungt. Citrinum, is the best Ointment when Eruptions take place on the Skin — Always accom̄odate your Remidies to the Diathesis of the System ———

Opium can only be proper when the System is
and Stimuli are required— The Nitric Acid has lately
een used to cure the Disease— Hypochondriasis and
Rheumatism, are often mistaken for it— 'Tis then called
the Noodle Pox— you must undeceive them, and give them
no Medicine— Lues disposes much to Rheumatism—
Leprous Spots have been suspected to be Venereal when
it follows the Disease——

Lecture. 36th March 22d 1798.

Costiveneſs— When Local, it arises from particular Diet as Cheese &c— from certain Drinks as Port
Wine &c— from a change, or from a new Diet— from
a Sedentary Life— from negligence in going to Stool
from riding and sailing—— from certain matters
obstructing the lower Bowels, as hardened fæces &c

Remidies— are 1. Early rising— 2. Regularity
in going to Stool at a certain Hour— 3. Laxative
Diet, as Indian Meal, roasted Apples, Prunes &c
4. Laxative Medicines, as Crem: Tartar: Sulphur
Rhubarb chewed— Aloes, and the Butter-nut Pill
are recommended— but the Aloes when long used
is apt to induce Piles— and the Butternut P[illegible]
apt to act as a narcoti——

If it arise from Obstructions in the Rectum, they should be removed—6. All occasional Causes should be avoided—7. A Close stool should be made use of in the Winter, instead of a necessary; on Account of the Cold Air—Costiveness produces Head-Ache—Nephritis—Jaundice &c—but more frequently ~~produces~~ induces Colic and Piles—

18. **Cancer**—Is a Tumor derived from Schirrhus—

Causes—are whatever, induces Schir~~rus~~rhus—Effusions will produce it—Also will obstructed Menses, excite it in the Womb, from the Effusion—It is either without or with Ulcer—'Tis known by Heat, itching, indurations &c—'tis most frequently found in Glandular Parts—

On the Penis, Ulcers are apt to terminate in Cancer—Internal Cancers, are incurable—They generally affect people beyond 45. Years of Age—The Humors of Old people have a peculiar Acrimony—hence acrid Urine, Saliva, Tears &c—

Cancers are more frequent in Cold, than warm Climates—they are either local or general—

Cure.

1. Internal Remidies—are—

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10.

II. Externa

I. Exe

"Noli me tangere"– they m
Always advise the exterpati
never dismiss such Patients w
exterpation — 2. Caustics–as
Indian Turnip–Lunar Caustic–Ca
&ca these are only proper in small
Diet, and exercise should be attended t

19. Cutaneous Eruptions

bid Affection of the Cut

3—

nd

with Calomel—

Warm Bath—

ier must be than

ease, than any thing

ently an Animal— Cr

1. Ink—

2. Gun Powder

3. Nitrous Acid, diluted, so

ver fail—

Cure— 1. [illegible]

BOUND BY
HERBERT C. FEHR
PHILA., PA.

NOTES FROM THE MANUSCRIPT LECTURES
ON THE PRACTICE OF PHYSIC OF BENJAMIN RUSH